```
=> d his

     (FILE 'HOME' ENTERED AT 11:54:31 ON 07 APR 2004)

     FILE 'REGISTRY' ENTERED AT 11:54:39 ON 07 APR 2004
L1                STRUCTURE UPLOADED
L2                QUE L1
L3             31 S L2

     FILE 'CAPLUS' ENTERED AT 11:56:30 ON 07 APR 2004
                  E MELIKIAN?/AU
                  E MELIKIAN-BADALIAN/AU
                  E MELIKIAN-BADALIAN A?/AU
L4             15 S MELIKIAN-BADALIAN A?/AU
L5              1 S INDANE/TI AND L4
                  SEL RN

     FILE 'REGISTRY' ENTERED AT 11:58:20 ON 07 APR 2004
L6            142 S E1-142
L7            115 S L6 AND NRS>1

     FILE 'CAPLUS' ENTERED AT 11:59:36 ON 07 APR 2004

     FILE 'REGISTRY' ENTERED AT 12:02:48 ON 07 APR 2004
L8             50 S L7 AND NRS=2
L9             14 S L8 AND PIPERAZIN?
L10           101 S L7 NOT L9

     FILE 'CAPLUS' ENTERED AT 12:03:59 ON 07 APR 2004

     FILE 'REGISTRY' ENTERED AT 12:04:09 ON 07 APR 2004
L11            90 S L10 AND INDEN?
L12            11 S L10 NOT L11

     FILE 'CAPLUS' ENTERED AT 12:05:15 ON 07 APR 2004
L13             2 S L11
                  S PIPERAZINE/CN

     FILE 'REGISTRY' ENTERED AT 12:06:51 ON 07 APR 2004
L14             1 S PIPERAZINE/CN

     FILE 'CAPLUS' ENTERED AT 12:06:51 ON 07 APR 2004

     FILE 'REGISTRY' ENTERED AT 12:06:57 ON 07 APR 2004
L15             1 S PIPERAZINE/CN
L16        506380 S 46.383/RID
L17            30 S L2  SUB=L16 SAM
L18           615 S L2  SUB=L16 FUL

     FILE 'CAPLUS' ENTERED AT 12:10:58 ON 07 APR 2004
L19            70 S L18
L20           ANALYZE L19 1- RN HIT :     540 TERMS

     FILE 'REGISTRY' ENTERED AT 12:11:16 ON 07 APR 2004
L21             1 S 80273-79-6/RN
L22           614 S L18 NOT L21

     FILE 'CAPLUS' ENTERED AT 12:11:46 ON 07 APR 2004
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L23          53 S L22

     FILE 'REGISTRY' ENTERED AT 12:12:19 ON 07 APR 2004
L24         100 S 80273?/RN
L25         100 S 80274?/RN
L26         100 S 96478?/RN
L27         100 S 104113?/RN
L28         100 S 104153?/RN
L29         100 S 85663?/RN
L30          99 S L22 AND L24
L31          59 S L22 AND L25
L32           1 S L22 AND L26
L33           4 S L22 AND L27
L34           1 S L22 AND L28
L35          53 S L22 AND L29
L36             STRUCTURE UPLOADED
L37             QUE L36
L38          47 S L37  SUB=L18 FUL

     FILE 'CAPLUS' ENTERED AT 12:15:44 ON 07 APR 2004
L39           5 S L38

     FILE 'REGISTRY' ENTERED AT 12:16:09 ON 07 APR 2004
L40           4 S L37
L41         910 S L37 SSS FUL

     FILE 'CAPLUS' ENTERED AT 12:16:43 ON 07 APR 2004
L42         496 S L41

     FILE 'REGISTRY' ENTERED AT 12:17:16 ON 07 APR 2004

     FILE 'CAPLUS' ENTERED AT 12:17:45 ON 07 APR 2004
L43          ANALYZE L42 1- RN HIT :     889 TERMS

     FILE 'REGISTRY' ENTERED AT 12:18:39 ON 07 APR 2004

     FILE 'CAPLUS' ENTERED AT 12:24:48 ON 07 APR 2004

     FILE 'REGISTRY' ENTERED AT 12:25:29 ON 07 APR 2004

     FILE 'CAPLUS' ENTERED AT 12:27:18 ON 07 APR 2004

     FILE 'REGISTRY' ENTERED AT 12:27:46 ON 07 APR 2004

     FILE 'CAPLUS' ENTERED AT 12:28:58 ON 07 APR 2004

     FILE 'REGISTRY' ENTERED AT 12:30:04 ON 07 APR 2004

     FILE 'CAPLUS' ENTERED AT 12:32:01 ON 07 APR 2004

     FILE 'REGISTRY' ENTERED AT 12:32:47 ON 07 APR 2004
L44             STRUCTURE UPLOADED
L45             QUE L44
L46         527 S L45  SUB=L41 FUL
L47         383 S L41 NOT L46

     FILE 'CAPLUS' ENTERED AT 12:33:28 ON 07 APR 2004
L48         265 S L47
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L49          ANALYZE L48 1- RN HIT :      377 TERMS

     FILE 'REGISTRY' ENTERED AT 12:34:05 ON 07 APR 2004
L50         3224 S 522-09-8/RN OR 4483-47-0/RN OR 439-22-5/RN OR 22688?/RN OR 30
L51           10 S L47 AND L50
L52          373 S L47 NOT L51

     FILE 'CAPLUS' ENTERED AT 12:35:33 ON 07 APR 2004
L53          140 S L52
L54          ANALYZE L53 1- RN HIT :      367 TERMS

     FILE 'REGISTRY' ENTERED AT 12:37:03 ON 07 APR 2004
L55               STRUCTURE UPLOADED
L56               QUE L55
L57          236 S L56  SUB=L41 FUL
L58          201 S L41 NOT (L57 OR L46)

     FILE 'CAPLUS' ENTERED AT 12:39:08 ON 07 APR 2004
L59           48 S L58

     FILE 'REGISTRY' ENTERED AT 12:39:25 ON 07 APR 2004

     FILE 'CAPLUS' ENTERED AT 12:39:31 ON 07 APR 2004
L60           52 S L39 OR L59

=> d l2
L2 HAS NO ANSWERS
L1                STR
```

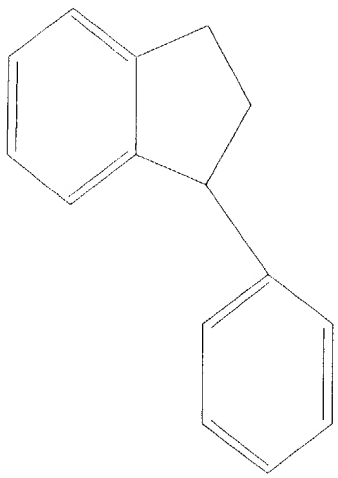

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Structure attributes must be viewed using STN Express query preparation.
L2                QUE  ABB=ON  PLU=ON  L1


=> d l37
L37 HAS NO ANSWERS
L36               STR
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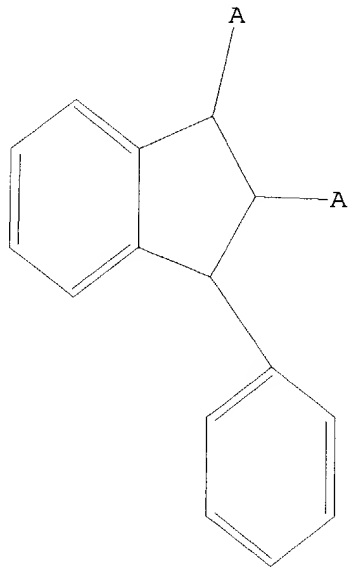
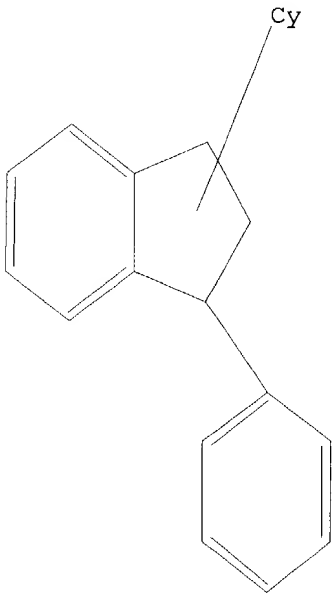


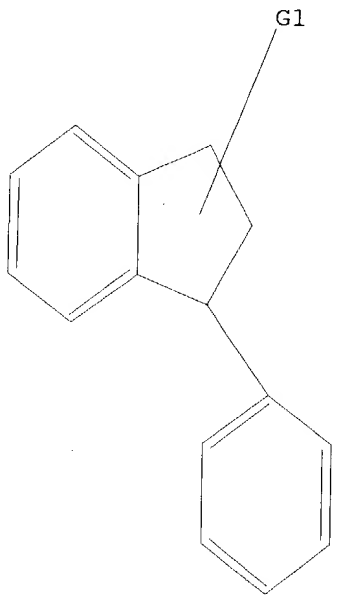
Structure attributes must be viewed using STN Express query preparation.
L37 QUE ABB=ON PLU=ON L36

=> d l45
L45 HAS NO ANSWERS
L44 STR



Structure attributes must be viewed using STN Express query preparation.
L45 QUE ABB=ON PLU=ON L44

=> d l56
L56 HAS NO ANSWERS
L55 STR



G1 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.
L56 QUE ABB=ON PLU=ON L55

=> d ibib abs hitstr 160 1-52

L60 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:40106 CAPLUS
DOCUMENT NUMBER: 140:235477
TITLE: The alicyclic ring contraction of perfluoro-1-phenyltetralin in reaction with antimony pentafluoride
AUTHOR(S): Sinyakov, Vladimir R.; Mezhenkova, Tatyana V.; Karpov, Victor M.; Platonov, Vyacheslav E.
CORPORATE SOURCE: N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry, Novosibirsk, 630090, Russia
SOURCE: Journal of Fluorine Chemistry (2004), 125(1), 49-53
CODEN: JFLCAR; ISSN: 0022-1139
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

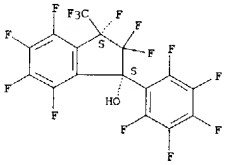
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Perfluoro-1-phenyltetralin (I) was heated with antimony pentafluoride at 130 °C and then treated with water to give a mixture of perfluoro-3-methyl-2-phenylindenone (II), perfluoro-3-methyl-2-phenylindene (III), perfluoro-3-hydroxy-1-methyl-3-phenylindan (IV), perfluoro-1-methyl-3-phenylindan (V), perfluoro-9-methyl-1,2,3,4,5,6,7,8-octahydroanthracene and perfluoro-1,9-dimethyl-5,6,7,8-tetrahydro-β-naphthindan. When I was heated with SbF5 in the presence of HF and then similarly treated with water, only II-V were produced as a mixture However, when the reaction was performed in the presence of HF at 170 and 200 °C II-V formed together with perfluoro-2-(cyclohexen-1-yl)-3-methylindene.

IT **668983-75-3P 668983-76-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(alicyclic ring contraction of perfluorophenyltetralin in the presence of antimony pentafluoride)

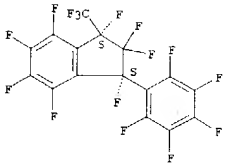
RN 668983-75-3 CAPLUS
CN 1H-Inden-1-ol, 2,2,3,4,5,6,7-heptafluoro-2,3-dihydro-1-(pentafluorophenyl)-3-(trifluoromethyl)-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L60 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 668983-76-4 CAPLUS
CN 1H-Indene, 1,2,2,3,4,5,6,7-octafluoro-2,3-dihydro-1-(pentafluorophenyl)-3-(trifluoromethyl)-, (1R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:2730 CAPLUS
DOCUMENT NUMBER: 140:71043
TITLE: Combination treatment for depression and anxiety by NK1 and NK3 antagonists
INVENTOR(S): Sobolov-Jaynes, Susan Beth; Lowe, John Adams, III; McLean, Stafford
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
SOURCE: PCT Int. Appl., 124 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000355	A1	20031231	WO 2003-IB2516	20030610
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004006135	A1	20040108	US 2003-386582	20030312

PRIORITY APPLN. INFO.: US 2002-389975P P 20020619
OTHER SOURCE(S): MARPAT 140:71043

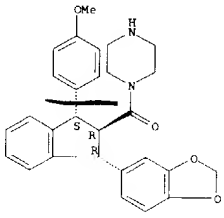
AB The invention discloses a method for treating depression or anxiety in a mammal, including a human, by administering to the mammal a CNS-penetrant NK1 receptor antagonist (e. g., a substance P receptor antagonist) in combination with an NK3 antagonist agent. It also relates to pharmaceutical compns. containing a pharmaceutically acceptable carrier, a CNS-penetrant NK1 receptor antagonist and an NK3 antagonist.

IT **180057-91-4**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(NK1 and NK3 antagonist combination treatment for depression and anxiety)

RN 180057-91-4 CAPLUS
CN Piperazine, 1-[[(1R,2R,3S)-1-(1,3-benzodioxol-5-yl)-2,3-dihydro-3-(4-methoxyphenyl)-1H-inden-2-yl]carbonyl]-, rel- (9CI) (CA INDEX NAME)

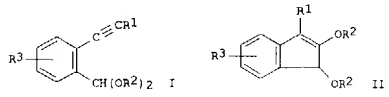
Relative stereochemistry.

L60 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



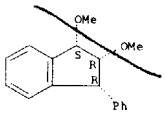
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 3 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:935635 CAPLUS
DOCUMENT NUMBER: 138:287377
TITLE: Indenol ether formation from arylalkynes bearing ortho-acetals: an unprecedented rearrangement in palladium-catalyzed carboalkoxylation
AUTHOR(S): Nakamura, Itaru; Bajracharya, Gan B.; Mizushima, Yuya; Yamamoto, Yoshinori
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Tohoku University, Sendai, 980-8578, Japan
SOURCE: Angewandte Chemie, International Edition (2002), 41(22), 4328-4331
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:287377
GI



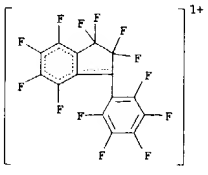
AB In the presence of 10 mol % (MeCN)2PdCl2, acetal-containing arylalkynes I (R1 = Pr, hexyl, cyclohexyl, Ph, etc.; R2 = Me, Et, Bu; R3 = H, 4-CF3, 5-CF3, 4-Me) cyclized to II in 40 87% yield. A mechanistic study showed that R1 migrated to the other acetylenic carbon during the rearrangement.
IT **506409-74-1P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure; indenol ether formation from arylalkynes bearing ortho-acetals involving rearrangement in palladium-catalyzed carbalkoxylation)
RN 506409-74-1 CAPLUS
CN 1H-Indene, 2,3-dihydro-1,2-dimethoxy-3-phenyl-, (1R,2S,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS

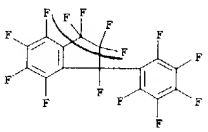
L60 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:846468 CAPLUS
DOCUMENT NUMBER: 138:353722
TITLE: Pentafluorophenylation of Perfluorinated Benzocyclobutene, Indan, and Tetralin by Reaction with Pentafluorobenzene in SbF5
AUTHOR(S): Karpov, V. M.; Mezhenkova, T. V.; Platonov, V. E.; Sinyakov, V. R.; Shchegoleva, L. N.
CORPORATE SOURCE: Siberian Department, Vorozhtsov Novosibirsk Institute of Organic Chemistry, Russian Academy of Sciences, Novosibirsk, 630090, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2002), 38(8), 1158-1165
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:353722
AB The reactivity of perfluorinated benzocyclobutene, indan, and tetralin in reaction with pentafluorobenzene in SbF5 medium, and also the relative stability of generated therewith perfluoro-1-phenylbenzocycloalkenyl cations decrease with increasing alicyclic fragment in the benzocycloalkene. Treating the solns. of salts of the above cations with anhydrous HF results in the corresponding perfluoro-1-phenylbenzocycloalkenes, and the hydrolysis of salts furnishes their 1-hydroxy derivs. In a reaction of 1-hydroxyperfluoro-1-phenylbenzocyclobutene, -indan, and -tetralin with SOCl2 the hydroxy group is replaced by chlorine. Besides with indan and tetralin derivs. form 7-pentafluorophenyloctafluoro-3-chlorobicyclo[4.3.0]hepta-1,4,6-triene and 7-pentafluorophenyldecafluoro-3-chlorobicyclo[4.4.0]octa-1,4,6-triene, resp.
IT **519162-99-3P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and stability of phenylbenzocycloalkanes via pentafluorophenylation of perfluorinated benzocyclobutene, indan, and tetralin by reaction with pentafluorobenzene in antimony pentafluoride)
RN 519162-99-3 CAPLUS
CN 1H-Indenylium, 1,1,2,2,4,5,6,7-octafluoro-2,?-dihydro-3-(pentafluorophenyl)- (9CI) (CA INDEX NAME)



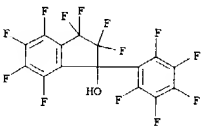
IT **333800-16-1P 333800-18-3P 519059-88-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of phenylbenzocycloalkanes via pentafluorophenylation of

L60 ANSWER 3 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

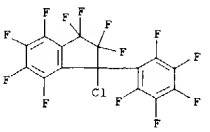
L60 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
perfluorinated benzocyclobutene, indan, and tetralin by reaction with pentafluorobenzene in antimony pentafluoride)
RN 333800-16-1 CAPLUS
CN 1H-Indene, 1,1,2,2,3,4,5,6,7-nonafluoro-2,3-dihydro-3-(pentafluorophenyl)- (9CI) (CA INDEX NAME)



RN 333800-18-3 CAPLUS
CN 1H-Inden-1-ol, 2,2,3,3,4,5,6,7-octafluoro-2,3-dihydro-1-(pentafluorophenyl)- (9CI) (CA INDEX NAME)

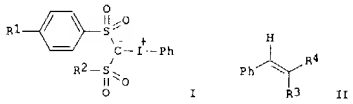


RN 519059-88-2 CAPLUS
CN 1H-Indene, 1-chloro-2,2,3,3,4,5,6,7-octafluoro-2,3-dihydro-1-(pentafluorophenyl)- (9CI) (CA INDEX NAME)



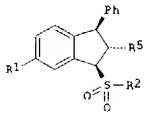
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:806275 CAPLUS
DOCUMENT NUMBER: 138:187493
TITLE: A stereoselective and regioselective synthesis of trans,trans-configured 1,2,3-trisubstituted indanes: cycloaddition of alkenes with iodonium ylides of β-disulfones
AUTHOR(S): Adam, Waldemar; Bosio, Sara G.; Gogonas, Efstathios P.; Hadjiarapoglou, Lazaros P.
CORPORATE SOURCE: Institut fur Organische Chemie, Universitat Wurzburg, Wurzburg, 97074, Germany
SOURCE: Synthesis (2002), (14), 2084-2090
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:187493
GI



I

II

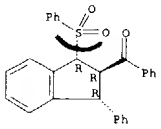


III

AB The reaction of phenyliodonium-bis(sulfonyl) methylides I (R1 = H, R2 = Ph; R1 = Me, R2 = Me, 4-MeC6H4) with alkenes II (R3 = Ph, R4 = H; R3 = H, R4 = Ph, Me, PhCO) affords the multiply trisubstituted indanes III (R1 = H, R2 = Ph, R5 = Ph, Me, PhCO; R1 = Me, R2 = Me, 4-MeC6H4, R5 = Ph, Me) in moderate to good yields, through an unusual cycloaddn. The present stereoselective and regioselective cycloaddn. provides a convenient preparative route to trans,trans-configured 1,2,3-trisubstituted indanes, in which the benzene ring derives from the arenesulfonyl functionality of the bis(sulfonyl)iodonium ylide. The mechanistically puzzling structural feature is the fact (X-ray structure) that the para-Me substituent of the original p-toluenesulfonyl group in the iodonium ylide is located in the C-6 position of the resulting indane benzene ring, i.e., a meta relationship with respect to the original methylide carbon atom.
IT **499203-14-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)

L60 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(stereo- and regioselective prepn. of trans,trans-trisubstituted indanes via cycloaddn. of aryl alkenes with β-disulfonyl iodonium ylides)
RN 499203-14-4 CAPLUS
CN Methanone, [(1R,2R,3R)-2,3-dihydro-1-phenyl-3-(phenylsulfonyl)-1H-inden-2-yl]phenyl-, rel- (9CI) (CA INDEX NAME)

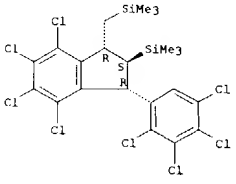
Relative stereochemistry.



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 6 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:582028 CAPLUS
DOCUMENT NUMBER: 137:279236
TITLE: Friedel-Crafts Alkylation of Polychlorobenzenes with (1,2-Dichloroethyl)trichlorosilane
AUTHOR(S): Han, Joon Soo; Lim, Weon Cheol; Yoo, Bok Ryul; Jin, Jung-Il; Jung, Il Nam
CORPORATE SOURCE: Organosilicon Chemistry Laboratory, Korea Institute of Science and Technology, Seoul, 130-650, S. Korea
SOURCE: Organometallics (2002), 21(18), 3803-3809
CODEN: ORGND7; ISSN: 0276-7333
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:279236
AB (1,2-Dichloroethyl)trichlorosilane (2) reacted with a 6-fold excess of mono-, di-, and trichlorobenzenes at 120° in the presence of aluminum chloride to give regiospecific (2,2-diarylethyl)trichlorosilanes via a carbocation rearrangement. The yields were 61-69%, and regioisomers of (1,2-diarylethyl)silanes were not obtained. Alkylation of 1,2,3,4-tetrachlorobenzene with 2 did not give [2,2-bis(tetrachlorophenyl)ethyl]trichlorosilane or 9,10-bis(silyl)methyl-9,10-dihydroanthracenes but gave cyclic silyl-substituted indanes in 84% yield via the acid-catalyzed dimerization of β-(trichlorosilyl)styrene formed by the first alkylation, followed by dehydrochlorination. The structure of 1,2-trans-2,3-trans-4,5,6,7-tetrachloro-1-(2,3,4,5-tetrachlorophenyl)-2-(trichlorosilyl)-3-((trichlorosilyl)methyl)indane has been determined by x-ray crystallog. The desilylated product, 1,3-cis-4,5,6,7-tetrachloro-1-(2,3,4,5-tetrachlorophenyl)-3-((trichlorosilyl)methyl)indane, was reduced by LiAlH4, and its structure was also determined
IT **464173-79-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal structure of)
RN 464173-79-3 CAPLUS
CN Silane, trimethyl[[(1R,2S,3R)-4,5,6,7-tetrachloro-2,3-dihydro-3-(2,3,4,5-tetrachlorophenyl)-2-(trimethylsilyl)-1H-inden-1-yl]methyl]-, rel- (9CI) (CA INDEX NAME)

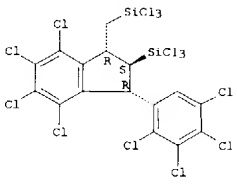
Relative stereochemistry.



IT **464173-75-9P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, crystal structure, and Grignard methylation of)

L60 ANSWER 6 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 464173-75-9 CAPLUS
CN Silane, trichloro[[(1R,2S,3R)-4,5,6,7-tetrachloro-2,3-dihydro-3-(2,3,4,5-tetrachlorophenyl)-2-(trichlorosilyl)-1H-inden-1-yl]methyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

09/976,929
applicant

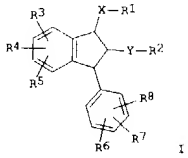
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:293637 CAPLUS
DOCUMENT NUMBER: 136:325563
TITLE: Preparation of aryl-indane compounds as inhibitors of P-glycoprotein-mediated transport
INVENTOR(S): Melikian-Badalian, Anita
PATENT ASSIGNEE(S): Avlan Limited, UK
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030915	A2	20020418	WO 2001-US32017	20011011
WO 2002030915	A3	20030327		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002024372	A5	20020422	AU 2002-24372	20011011
US 2002128231	A1	20020912	US 2001-976929	20011011

PRIORITY APPLN. INFO.: US 2000-240345P P 20001011
WO 2001-US32017 W 20011011

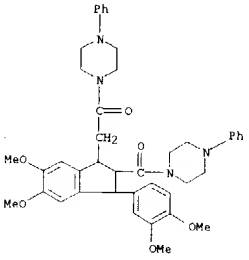
OTHER SOURCE(S): MARPAT 136:325563
GI



I

AB The title compds. [I; R1, R2 = OR9, NR10R11; R3-R8 = H, alkyl, Ph, etc.; R9 = alkylene, alkenylene, alkylidene, etc., all of which may be (un)substituted; R10, R11 = alkylene, alkenylene, phenylene, etc., all of which may be (un)substituted; X, Y = CH2, CO, CH2SO2, etc.] which may be used as inhibitors of P-glycoprotein-mediated transport, were prepared

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



514 - 252.11

544 - 357

RN 412315-11-8 CAPLUS
CN Piperazine, 1-(4-chlorophenyl)-4-[[2-[[4-(4-chlorophenyl)-1-piperazinyl]carbonyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-1H-inden-1-yl]acetyl]- (9CI) (CA INDEX NAME)

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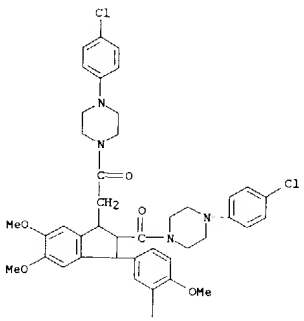
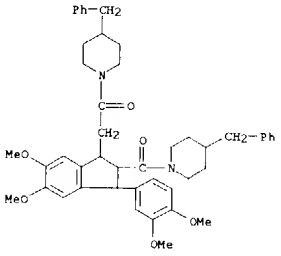


L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Thus, reacting 1-carboxymethyl-3-(3,4-dimethoxyphenyl)-5,6-dimethoxyindan-2-carboxylic acid with 4-benzylpiperidine in the presence of 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide.HCl, Et3N and dimethylaminopyridine in THF afforded 37% I [X = CH2CO; Y = CO; R1, R2 = 4-benzylpiperidin-1-yl; R3 = 5-MeO; R4 = 6=MeO; R5 = H; R6 = 3-MeO; R7 = 4-MeO; R8 = H] which showed 81.4% inhibition of Rhodamine 123 transport. Use of the compds. I to enhance bioavailability and to modulate multi drug resistance to chemotherapeutic agents is disclosed.

IT **412315-07-2P 412315-08-3P 412315-11-8P**
412315-12-9P 412315-15-2P 412315-40-3P
412315-41-4P 412315-56-1P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of aryl-indane compds. as inhibitors of P-glycoprotein-mediated transport)

RN 412315-07-2 CAPLUS
CN Piperidine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(phenylmethyl)-1-piperidinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



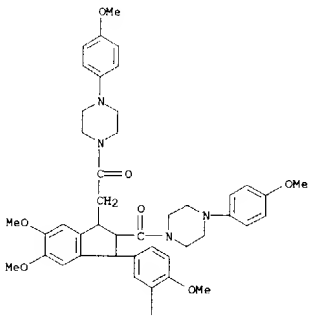
RN 412315-08-3 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[(4-phenyl-1-piperazinyl)carbonyl]-1H-inden-1-yl]acetyl]-4-phenyl- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A

RN 412315-12-9 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(4-methoxyphenyl)-1-piperazinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

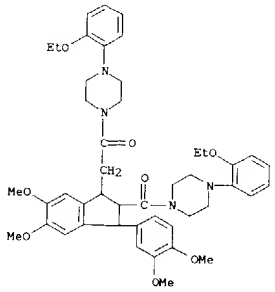
PAGE 1-A



PAGE 2-A

RN 412315-15-2 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-5,6-dimethoxy-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)

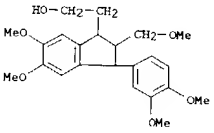
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



514-252.11

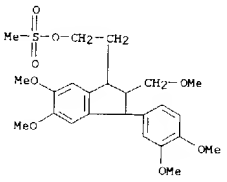
544-357

RN 412315-40-3 CAPLUS
CN 1H-Indene-1-ethanol, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)- (9CI) (CA INDEX NAME)

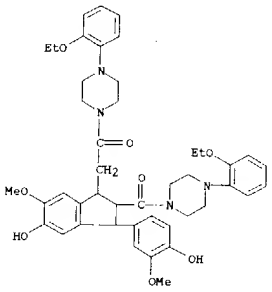


RN 412315-41-4 CAPLUS
CN 1H-Indene-1-ethanol, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-, methanesulfonate (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-56-1 CAPLUS
CN Piperazine, 1-(2-ethoxyphenyl) 4-[[2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-1H-inden-1-yl]acetyl]- (9CI) (CA INDEX NAME)



IT **412315-09-4P 412315-10-7P 412315-13-0P**
412315-14-1P 412315-16-3P 412315-17-4P
412315-18-5P 412315-19-6P 412315-20-9P
412315-21-0P 412315-22-1P 412315-23-2P
412315-24-3P 412315-25-4P 412315-26-5P
412315-27-6P 412315-28-7P 412315-29-8P
412315-30-1P 412315-31-2P 412315-32-3P
412315-33-4P 412315-34-5P 412315-35-6P
412315-36-7P 412315-37-8P 412315-38-9P
412315-42-5P 412315-43-6P 412315-44-7P
412315-45-8P 412315-46-9P 412315-47-0P
412315-48-1P 412315-49-2P 412315-50-5P

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
412315-51-6P 412315-54-9P 412315-59-4P
412315-62-9P 412315-65-2P 412315-70-9P
412315-71-0P 412315-74-3P 412315-76-5P
412315-77-6P 412315-79-8P 412315-81-2P
412315-83-4P 412315-84-5P 412315-85-6P
412315-86-7P 412315-87-8P 412315-88-9P
412315-89-0P 412315-90-3P 412315-91-4P
412315-92-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aryl-indane compds. as inhibitors of P-glycoprotein-mediated transport)

RN 412315-09-4 CAPLUS
CN Piperazine, 1-(4-acetylphenyl)-4-[[2-[[4-(4-acetylphenyl)-1-piperazinyl]carbonyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-1H-inden-1-yl]acetyl]- (9CI) (CA INDEX NAME)

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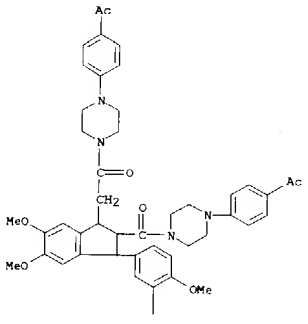

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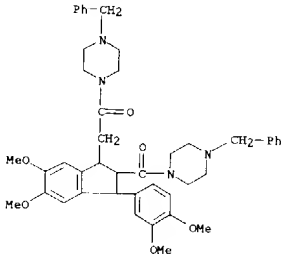
RN 412315-10-7 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(phenylmethyl)-1-piperazinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-13-0 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2-[[4-(4-fluorophenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-5,6-dimethoxy-1H-inden-1-yl]acetyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

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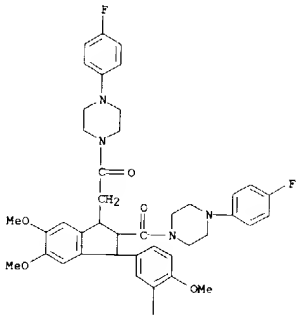
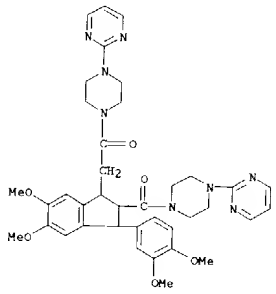


PAGE 2-A

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

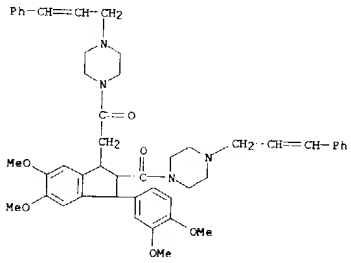
RN 412315-14-1 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(2-pyrimidinyl)-1-piperazinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)



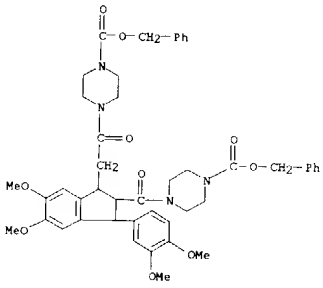
514-252.11

544-296

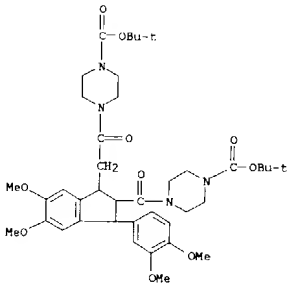
RN 412315-16-3 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(3-phenyl-2-propenyl)-1-piperazinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(3-phenyl-2-propenyl)- (9CI) (CA INDEX NAME)



L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



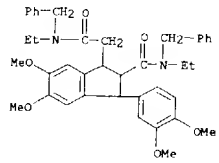
RN 412315-20-9 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[3-(3,4-dimethoxyphenyl)-2-[[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]carbonyl]-2,3-dihydro-5,6-dimethoxy-1H-inden-1-yl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



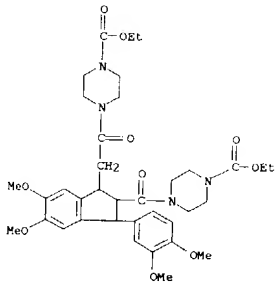
RN 412315-21-0 CAPLUS
CN 1H-Indene-1-acetamide, 3-(3,4-dimethoxyphenyl)-2-[(dimethylamino)carbonyl]-2,3-dihydro-5,6-dimethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 412315-17-4 CAPLUS
CN 1H-Indene-1-acetamide, 3-(3,4-dimethoxyphenyl)-N-ethyl-2-[[ethyl(phenylmethyl)amino]carbonyl]-2,3-dihydro-5,6-dimethoxy-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

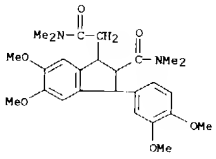


RN 412315-18-5 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[3-(3,4-dimethoxyphenyl)-2-[[4-(ethoxycarbonyl)-1-piperazinyl]carbonyl]-2,3-dihydro-5,6-dimethoxy-1H-inden-1-yl]acetyl]-, ethyl ester (9CI) (CA INDEX NAME)

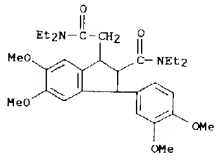


RN 412315-19-6 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-oxo-2-[4-[(phenylmethoxy)carbonyl]-1-piperazinyl]ethyl]-1H-inden-2-yl]carbonyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

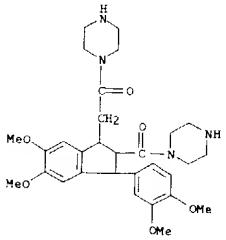
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-22-1 CAPLUS
CN 1H-Indene-1-acetamide, 2-[(diethylamino)carbonyl]-3-(3,4-dimethoxyphenyl)-N,N-diethyl-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)



RN 412315-23-2 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(1-piperazinylcarbonyl)-1H-inden-1-yl]acetyl]- (9CI) (CA INDEX NAME)



RN 412315-24-3 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2-[[4-ethyl-1-piperazinyl]carbonyl]-2,3-dihydro-5,6-dimethoxy-1H-inden-1-yl]acetyl]-4-

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
ethyl- (9CI) (CA INDEX NAME)

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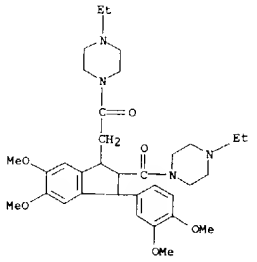
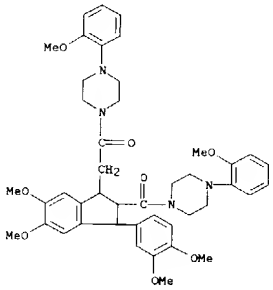
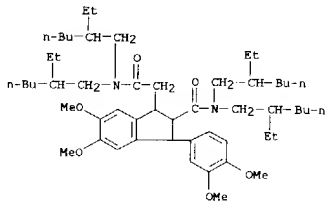


RN 412315-25-4 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(2-methoxyphenyl)-1-piperazinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

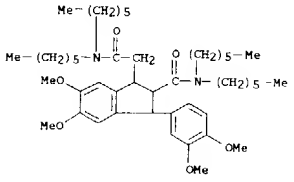


RN 412315-26-5 CAPLUS
CN 1H-Indene-1-acetamide, 3-(3,4-dimethoxyphenyl)-2-[(dipropylamino)carbonyl]-2,3-dihydro-5,6-dimethoxy-N,N-dipropyl- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

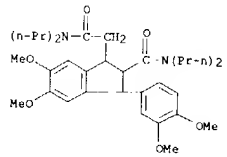


RN 412315-30-1 CAPLUS
CN 1H-Indene-1-acetamide, 2-[(dihexylamino)carbonyl]-3-(3,4-dimethoxyphenyl)-N,N-dihexyl-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)

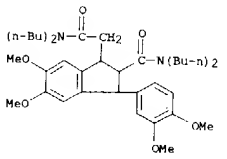


RN 412315-31-2 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(2-pyridinyl)-1-piperazinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)

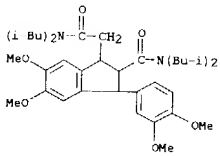
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-27-6 CAPLUS
CN 1H-Indene-1-acetamide, N,N-dibutyl-2-[(dibutylamino)carbonyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)

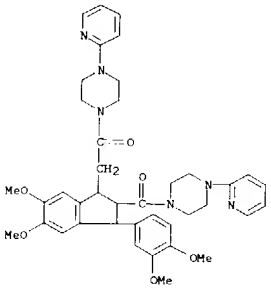


RN 412315-28-7 CAPLUS
CN 1H-Indene-1-acetamide, 2-[[bis(2-methylpropyl)amino]carbonyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-N,N-bis(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 412315-29-8 CAPLUS
CN 1H-Indene-1-acetamide, 2-[[bis(2-ethylhexyl)amino]carbonyl]-3-(3,4-dimethoxyphenyl)-N,N-bis(2-ethylhexyl)-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-32-3 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[4-(4-nitrophenyl)-1-piperazinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

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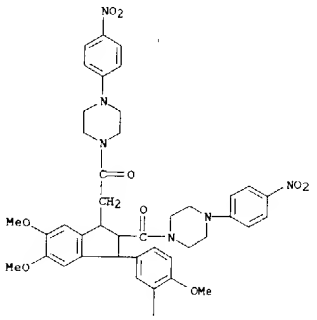

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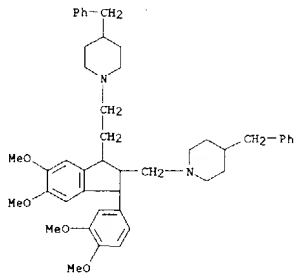
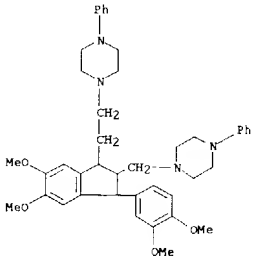
RN 412315-33-4 CAPLUS
CN Piperidine, 1-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-[4-(phenylmethyl)-1-piperidinyl]ethyl]-1H-inden-2-yl]methyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 412315-34-5 CAPLUS
CN Piperazine, 1-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-(4-phenyl-1-piperazinyl)ethyl]-1H-inden-2-yl]methyl]-4-phenyl- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



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RN 412315-35-6 CAPLUS
CN Piperazine, 1-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-[4-(4-methoxyphenyl)-1-piperazinyl]ethyl]-1H-inden-2-yl]methyl]-4-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

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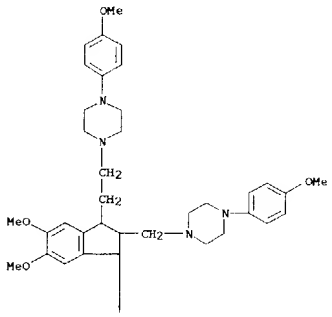

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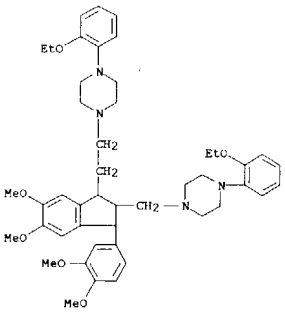
RN 412315-36-7 CAPLUS
CN Piperazine, 1-[[1-(3,4-dimethoxyphenyl)-3-[2-[4-(2-ethoxyphenyl)-1-piperazinyl]ethyl]-2,3-dihydro-5,6-dimethoxy-1H-inden-2-yl]methyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 412315-37-8 CAPLUS
CN Piperazine, 1-(4-chlorophenyl)-4-[[1-[2-[4-(4-chlorophenyl)-1-piperazinyl]ethyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-1H-inden-2-yl]methyl]- (9CI) (CA INDEX NAME)

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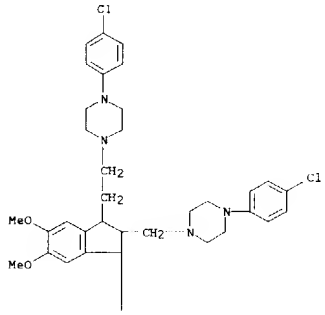

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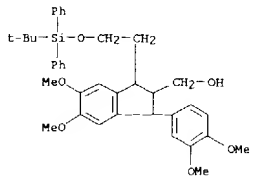
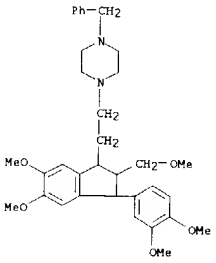
RN 412315-38-9 CAPLUS
CN 1H-Indene-2-methanol, 1-(3,4-dimethoxyphenyl)-3-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]ethyl]-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)



L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 412315-42-5 CAPLUS
CN Piperazine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



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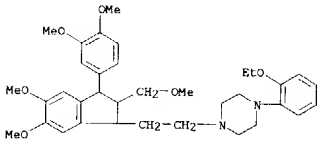
544-398

RN 412315-43-6 CAPLUS
CN Piperazine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)

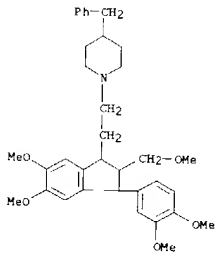


514-255.03

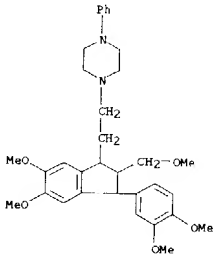
544-394

RN 412315-44-7 CAPLUS
CN Piperidine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

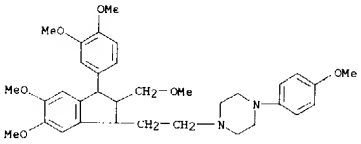


RN 412315-45-8 CAPLUS
CN Piperazine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-phenyl- (9CI) (CA INDEX NAME)

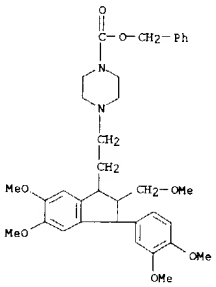


RN 412315-46-9 CAPLUS
CN Piperazine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-47-0 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



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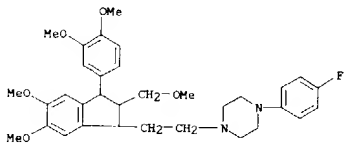
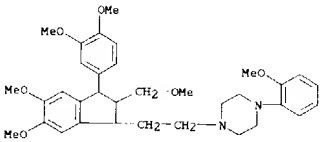
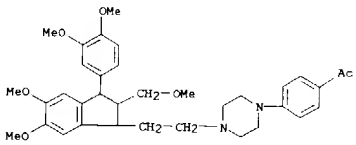
RN 412315-48-1 CAPLUS
CN Piperazine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 412315-49-2 CAPLUS
CN Piperazine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 412315-50-5 CAPLUS
CN Ethanone, 1-[4-[4-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)



RN 412315-51-6 CAPLUS
CN Piperazine, 1-[2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethyl]-4-(3-phenyl-2-propenyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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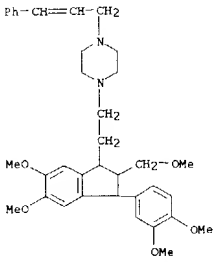
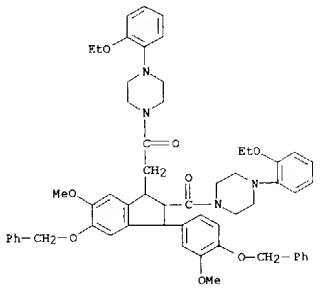
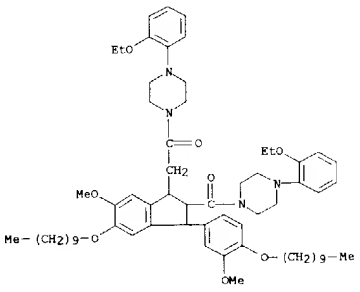


RN 412315-54-9 CAPLUS
CN Piperazine, 1-(2-ethoxyphenyl)-4-[[2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-6-methoxy-3-[3-methoxy-4-(phenylmethoxy)phenyl]-5-(phenylmethoxy)-1H-inden-1-yl]acetyl]- (9CI) (CA INDEX NAME)

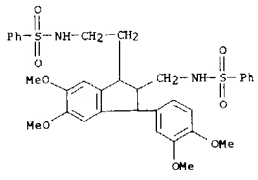


RN 412315-59-4 CAPLUS
CN Piperazine, 1-[[5-ethoxy-3-(4-ethoxy-3-methoxyphenyl)-2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-6-methoxy-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-70-9 CAPLUS
CN Benzenesulfonamide, N-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-[(phenylsulfonyl)amino]ethyl]-1H-inden-2-yl]methyl]- (9CI) (CA INDEX NAME)



RN 412315-71-0 CAPLUS
CN Urea, N-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-[[[(phenylmethyl)amino]carbonyl]amino]ethyl]-1H-inden-2-yl]methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

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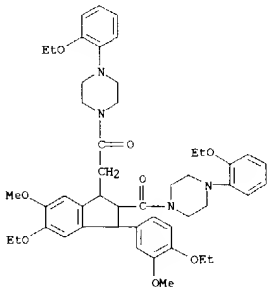
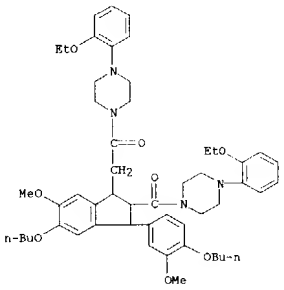


RN 412315-62-9 CAPLUS
CN Piperazine, 1-[[5-butoxy-3-(4-butoxy-3-methoxyphenyl)-2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-6-methoxy-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl) (9CI) (CA INDEX NAME)



RN 412315-65-2 CAPLUS
CN Piperazine, 1-[[5-(decyloxy)-3-[4-(decyloxy)-3-methoxyphenyl]-2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-6-methoxy-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)

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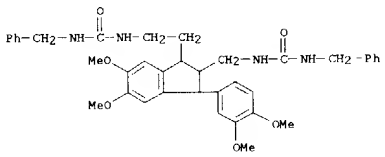
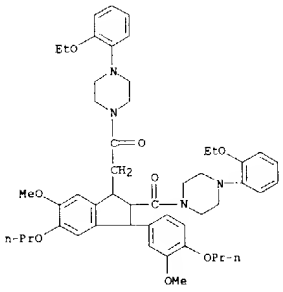


RN 412315-74-3 CAPLUS
CN Piperazine, 1-(2-ethoxyphenyl)-4-[[2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-6-methoxy-3-(3-methoxy-4-propoxyphenyl)-5-propoxy-1H-inden-1-yl]acetyl]- (9CI) (CA INDEX NAME)



RN 412315-76-5 CAPLUS
CN Piperidine, 1-[[2,3-dihydro-5-hydroxy-3-[4-hydroxy-3-methoxyphenyl]-6-methoxy-2-[[4-(phenylmethyl)-1-piperidinyl]carbonyl]-1H-inden-1-yl]acetyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

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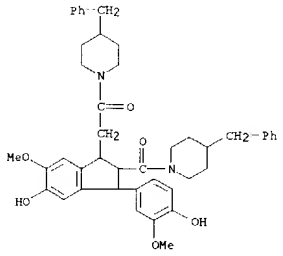
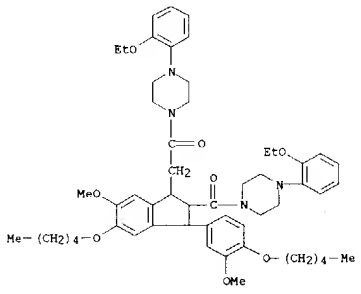
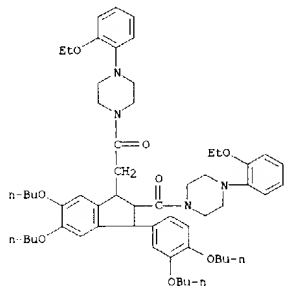


RN 412315-77-6 CAPLUS
CN Piperazine, 1-(2-ethoxyphenyl)-4-[[2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-6-methoxy-3-[3-methoxy-4-(pentyloxy)phenyl]-5-(pentyloxy)-1H-inden-1-yl]acetyl]- (9CI) (CA INDEX NAME)

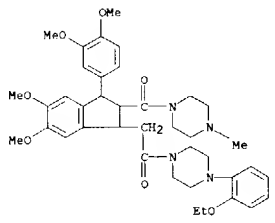


RN 412315-79-8 CAPLUS
CN Piperazine, 1-[[3-(3,4-diethoxyphenyl)-5,6-diethoxy-2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

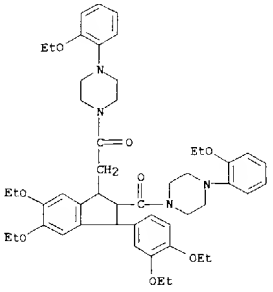


RN 412315-84-5 CAPLUS
CN Piperazine, 1-[[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[(4-methyl-1-piperazinyl)carbonyl]-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 412315-85-6 CAPLUS
CN 1H-Indene-2-carboxamide, 1-(3,4-dimethoxyphenyl)-3-[2-[4-(2-ethoxyphenyl)-1-piperazinyl]-2-oxoethyl]-2,3-dihydro-5,6-dimethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)

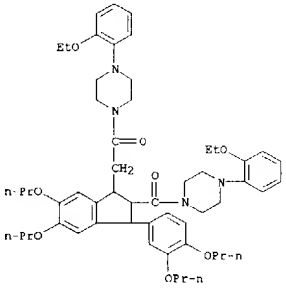
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



514 - 252.11

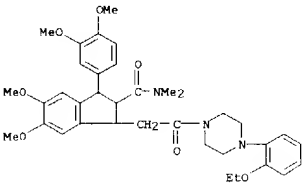
544 - 357

RN 412315-81-2 CAPLUS
CN Piperazine, 1-[[3-(3,4-dipropoxyphenyl)-2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-5,6-dipropoxy-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 412315-83-4 CAPLUS
CN Piperazine, 1-[[5,6-dibutoxy-3-(3,4-dibutoxyphenyl)-2-[[4-(2-ethoxyphenyl)-1-piperazinyl]carbonyl]-2,3-dihydro-1H-inden-1-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)

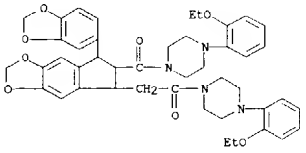
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



514 - 255.01

544 - 391

RN 412315-86-7 CAPLUS
CN Piperazine, 1-[[7-(1,3-benzodioxol-5-yl)-6-[[4-(2 ethoxyphenyl) 1-piperazinyl]carbonyl]-6,7-dihydro-5H-indeno[5,6-d]-1,3-dioxol-5-yl]acetyl]-4-(2-ethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 412315-87-8 CAPLUS
CN Benzamide, N-[[1-(3,4-dimethoxyphenyl)-3-[2-[[4-(1,1-dimethylethyl)benzoyl]amino]ethyl]-2,3-dihydro-5,6-dimethoxy-1H-inden-2-yl]methyl]-4-(1,1-dimethylethyl) (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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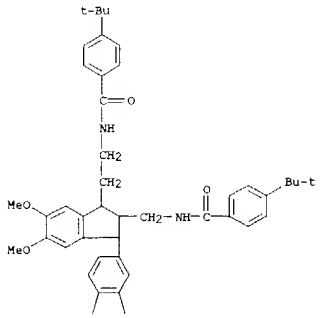

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RN 412315-88-9 CAPLUS
CN Benzamide, N-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-[[4-(trifluoromethoxy)benzoyl]amino]ethyl]-1H-inden-2-yl]methyl]-4-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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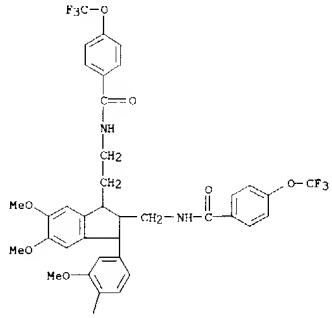

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RN 412315-89-0 CAPLUS
CN Benzamide, N-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-[(4-propylbenzoyl)amino]ethyl]-1H-inden-2-yl]methyl]-4-propyl- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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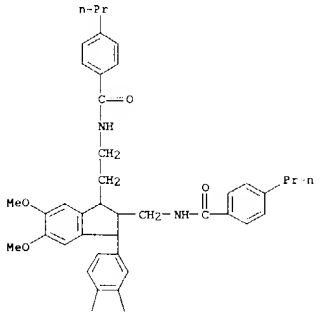

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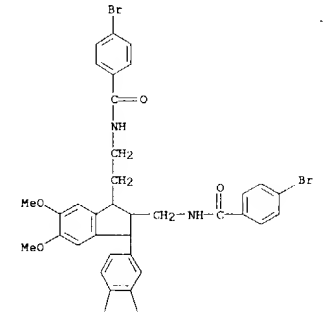
RN 412315-90-3 CAPLUS
CN Benzamide, 4-bromo-N-[[1-[2-[(4-bromobenzoyl)amino]ethyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-1H-inden-2-yl]methyl]- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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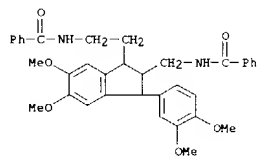
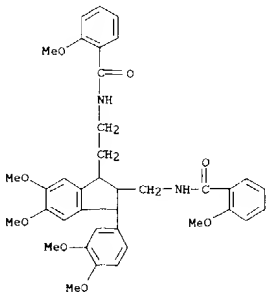
RN 412315-91-4 CAPLUS
CN Benzamide, N-[[1-[2-(benzoylamino)ethyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-1H-inden-2-yl]methyl]- (9CI) (CA INDEX NAME)



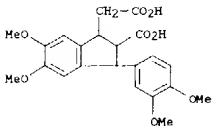
RN 412315-92-5 CAPLUS
CN Benzamide, N-[[1-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-3-[2-[(2-methoxybenzoyl)amino]ethyl]-1H-inden-2-yl]methyl]-2-methoxy- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT **53669-41-3 412315-93-6 412315-94-7**
412315-97-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aryl-indane compds. as inhibitors of P-glycoprotein-mediated transport)

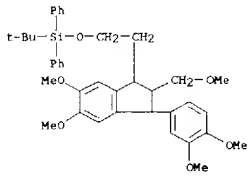
RN 53669-41-3 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)



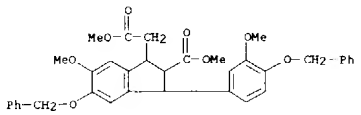
RN 412315-93-6 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-2-(methoxycarbonyl)-, methyl ester (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
transport)

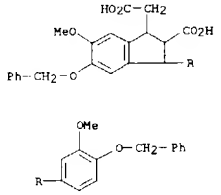
RN 412315-39-0 CAPLUS
CN Silane, [2-[3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxymethyl)-1H-inden-1-yl]ethoxy](1,1-dimethylethyl)diphenyl- (9CI) (CA INDEX NAME)



RN 412315-52-7 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-3-[3-methoxy-4-(phenylmethoxy)phenyl]-5-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)

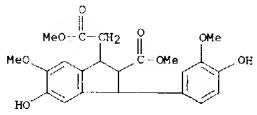


RN 412315-53-8 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-2,3-dihydro-6-methoxy-3-[3-methoxy-4-(phenylmethoxy)phenyl]-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)

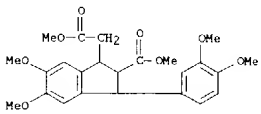


RN 412315-55-0 CAPLUS

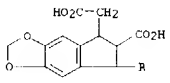
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

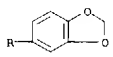


RN 412315-94-7 CAPLUS
CN 1H-Indene-1-acetic acid, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxycarbonyl)-, methyl ester (9CI) (CA INDEX NAME)



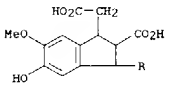
RN 412315-97-0 CAPLUS
CN 5H-Indeno[5,6-d]-1,3-dioxole-5-acetic acid, 7-(1,3-benzodioxol-5-yl)-6-carboxy-6,7-dihydro- (9CI) (CA INDEX NAME)

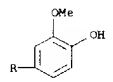




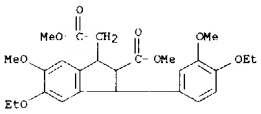
IT **412315-39-0P 412315-52-7P 412315-53-8P**
412315-55-0P 412315-57-2P 412315-58-3P
412315-60-7P 412315-61-8P 412315-63-0P
412315-64-1P 412315-66-3P 412315-67-4P
412315-68-5P 412315-69-6P 412315-72-1P
412315-73-2P 412315-75-4P 412315-78-7P
412315-80-1P 412315-82-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aryl-indane compds. as inhibitors of P-glycoprotein-mediated

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Indene-1-acetic acid, 2-carboxy-2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy- (9CI) (CA INDEX NAME)

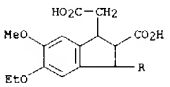


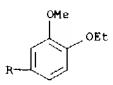


RN 412315-57-2 CAPLUS
CN 1H-Indene-1-acetic acid, 5-ethoxy-3-(4-ethoxy-3-methoxyphenyl)-2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-, methyl ester (9CI) (CA INDEX NAME)



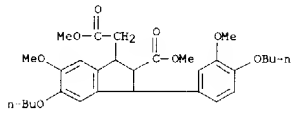
RN 412315-58-3 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-5-ethoxy-3-(4-ethoxy-3 methoxyphenyl)-2,3-dihydro-6-methoxy- (9CI) (CA INDEX NAME)



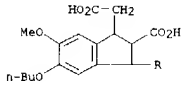


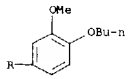
RN 412315-60-7 CAPLUS
CN 1H-Indene-1-acetic acid, 5-butoxy-3-(4-butoxy-3-methoxyphenyl)-2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-, methyl ester (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

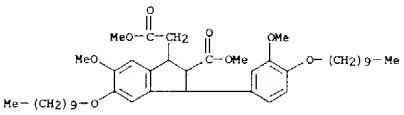


RN 412315-61-8 CAPLUS
CN 1H-Indene-1-acetic acid, 5-butoxy-3-(4-butoxy-3-methoxyphenyl)-2-carboxy-2,3-dihydro-6-methoxy- (9CI) (CA INDEX NAME)



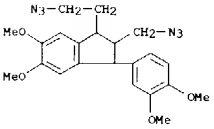


RN 412315-63-0 CAPLUS
CN 1H-Indene-1-acetic acid, 5-(decyloxy)-3-[4-(decyloxy)-3-methoxyphenyl]-2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-, methyl ester (9CI) (CA INDEX NAME)

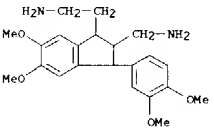


RN 412315-64-1 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-5-(decyloxy)-3-[4-(decyloxy)-3-methoxyphenyl]-2,3-dihydro-6-methoxy- (9CI) (CA INDEX NAME)

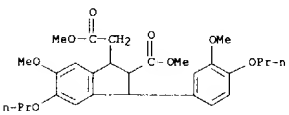
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 412315-69-6 CAPLUS
CN 1H-Indene-1-ethanamine, 2-(aminomethyl)-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)

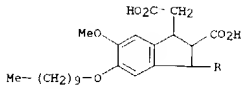


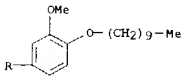
RN 412315-72-1 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-3-(3-methoxy-4-propoxyphenyl)-5-propoxy-, methyl ester (9CI) (CA INDEX NAME)



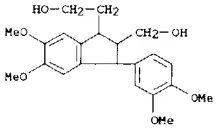
RN 412315-73-2 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-2,3-dihydro-6-methoxy-3-(3-methoxy-4-propoxyphenyl)-5-propoxy- (9CI) (CA INDEX NAME)

L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

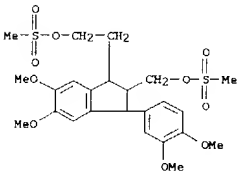




RN 412315-66-3 CAPLUS
CN 1H-Indene-1-ethanol, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-2-(hydroxymethyl)-5,6 dimethoxy- (9CI) (CA INDEX NAME)

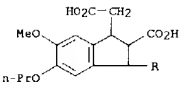


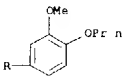
RN 412315-67-4 CAPLUS
CN 1H-Indene-1-ethanol, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-[[(methylsulfonyl)oxy]methyl]-, methanesulfonate (9CI) (CA INDEX NAME)



RN 412315-68-5 CAPLUS
CN 1H-Indene, 1-(2-azidoethyl)-2-(azidomethyl)-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)

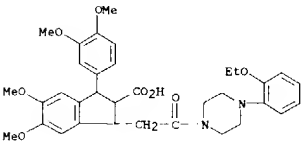
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



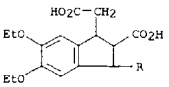


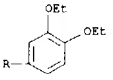
RN 412315-75-4 CAPLUS
CN 1H-Indene-2-carboxylic acid, 1-(3,4-dimethoxyphenyl)-3-[2-[4-(2-ethoxyphenyl)-1-piperazinyl]-2-oxoethyl]-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)

514-255.01
544-391



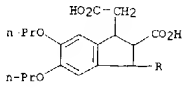
RN 412315-78-7 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-3-(3,4-diethoxyphenyl)-5,6-diethoxy-2,3-dihydro- (9CI) (CA INDEX NAME)

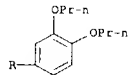




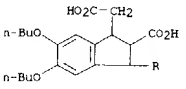
RN 412315-80-1 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-3-(3,4-dipropoxyphenyl)-2,3-dihydro-5,6-dipropoxy- (9CI) (CA INDEX NAME)

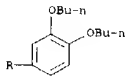
L60 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)





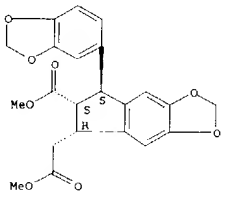
RN 412315-82-3 CAPLUS
CN 1H-Indene-1-acetic acid, 5,6-dibutoxy-2-carboxy-3-(3,4-dibutoxyphenyl)-2,3-dihydro- (9CI) (CA INDEX NAME)





L60 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:925731 CAPLUS
DOCUMENT NUMBER: 139:6704
TITLE: Dimerisations of cinnamates using acidic and acidic/oxidative conditions. [Erratum to document cited in CA136:37435]
AUTHOR(S): Pelter, Andrew; Ward, Robert S.; Venkateswarlu, Reveru; Kamakshi, Chakicherla; Moinuddin, Syed G. A.; Subhash, Pithani V.; Hursthouse, Michael B.; Coles, Simon J.; Light, Mark E.
CORPORATE SOURCE: Department of Chemistry, University of Wales Swansea, Swansea, SA2 8PP, UK
SOURCE: Tetrahedron (2002), 58(1), 205
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The corresponding authors should have appeared as Andrew Pelter and Reveru Venkateswarlu.
IT **144878-44-4P 380153-10-6P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and mol. structure (Erratum))
RN 144878-44-4 CAPLUS
CN 5H-Indeno[5,6-d]-1,3-dioxole-5-acetic acid, 7-(1,3-benzodioxol-5-yl)-6,7-dihydro-6-(methoxycarbonyl)-, methyl ester, (5R,6S,7S)-rel- (9CI) (CA INDEX NAME)

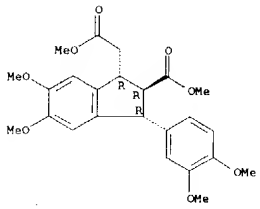
Relative stereochemistry.



RN 380153-10-6 CAPLUS
CN 1H-Indene-1-acetic acid, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxycarbonyl)-, methyl ester, (1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

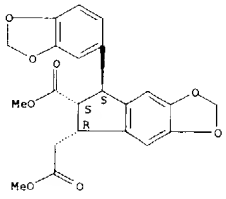
Relative stereochemistry.

L60 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L60 ANSWER 9 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:629482 CAPLUS
DOCUMENT NUMBER: 136:37435
TITLE: Dimerisations of cinnamates using acidic and acidic/oxidative conditions
AUTHOR(S): Pelter, A.; Ward, R. S.; Venkateswarlu, R.; Kamakshi, C.; Moinuddin, S. G. A.; Subhash, P. V.; Hursthouse, M. B.; Coles, S. J.; Light, M. E.
CORPORATE SOURCE: Department of Chemistry, University of Wales Swansea, Swansea, SA2 8PP, UK
SOURCE: Tetrahedron (2001), 57(36), 7755-7763
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:37435
AB It is confirmed that the dimerization of Me dialkoxycinnamates in acidic conditions yields trisubstituted indanes. When the reactions are carried out for 1.5 h/0°C in acidic conditions in the presence of DDQ then a variety of lignan types result, two of which represent new classes of lignans.
IT **144878-44-4P 380153-10-6P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and mol. structure)
RN 144878-44-4 CAPLUS
CN 5H-Indeno[5,6-d]-1,3-dioxole-5-acetic acid, 7-(1,3-benzodioxol-5-yl)-6,7-dihydro-6-(methoxycarbonyl)-, methyl ester, (5R,6S,7S)-rel- (9CI) (CA INDEX NAME)

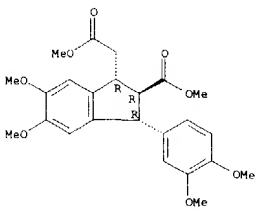
Relative stereochemistry.



RN 380153-10-6 CAPLUS
CN 1H-Indene-1-acetic acid, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxycarbonyl)-, methyl ester, (1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L60 ANSWER 9 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



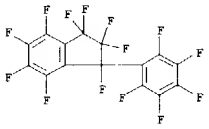
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:137615 CAPLUS
DOCUMENT NUMBER: 134:280583
TITLE: Skeletal transformations of perfluoro-1-phenylindan under the action of antimony pentafluoride
AUTHOR(S): Karpov, V. M.; Mezhenkova, T. V.; Platonov, V. E.; Sinyakov, V. R.
CORPORATE SOURCE: N.N. Vorozhtsov Institute of Organic Chemistry, Novosibirsk, 630090, Russia
SOURCE: Journal of Fluorine Chemistry (2001), 107(1), 53-57
CODEN: JFLCAR; ISSN: 0022-1139
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:280583

AB Perfluoro-1-phenylindan (I) was obtained from perfluoroindan and pentafluorobenzene in the presence of SbF5. I heated with antimony pentafluoride at 170°C and then treated with water gave a mixture of perfluorinated 9-methylfluorene (II), 9-hydroxy-9-methylfluorene (III), 9-methyl-1,2,3,4,5,6,7,8-octahydroanthracene, 1,9-dimethyl-5,6,7,8-tetrahydro-β-naphthindan. When heated with SbF5 in the presence of HF and then treated with water, I is transformed to a mixture of II, III, perfluoro-1,2,3,4,5,6,7,8-octahydroanthracene, perfluoro-10-methyl-9(10H)anthracenone, and 10-H-perfluoro-10-methyl-9(10H)anthracenone.

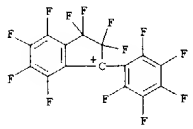
IT **333800-16-1P 333800-20-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and transformations of perfluoro-1-phenylindan under the action of antimony pentafluoride)

RN 333800-16-1 CAPLUS
CN 1H-Indene, 1,1,2,2,3,4,5,6,7-nonafluoro-2,3-dihydro-3-(pentafluorophenyl)-(9CI) (CA INDEX NAME)



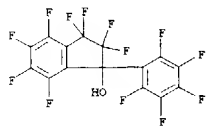
RN 333800-20-7 CAPLUS
CN 1H-Inden-1-ylium, 2,2,3,3,4,5,6,7-octafluoro-2,3-dihydro-1-(pentafluorophenyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



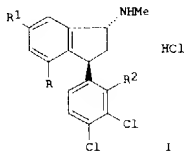
IT **333800-18-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and transformations of perfluoro-1-phenylindan under the action of antimony pentafluoride)

RN 333800-18-3 CAPLUS
CN 1H-Inden-1-ol, 2,2,3,3,4,5,6,7-octafluoro-2,3-dihydro-1-(pentafluorophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:818493 CAPLUS
DOCUMENT NUMBER: 134:115718
TITLE: Design, Synthesis, and Monoamine Transporter Binding Site Affinities of Methoxy Derivatives of Indatraline
AUTHOR(S): Gu, Xiao-Hui; Yu, Han; Jacobson, Arthur E.; Rothman, Richard B.; Dersch, Christina M.; George, Clifford; Flippen-Anderson, Judith L.; Rice, Kenner C.
CORPORATE SOURCE: Laboratory of Medicinal Chemistry, National Institute of Diabetes and Digestive and Kidney Diseases National Institutes of Health, Bethesda, MD, 20892-0815, USA
SOURCE: Journal of Medicinal Chemistry (2000), 43(25), 4868-4876
CODEN: JMCMAR; ISSN: 0022 2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:115718
GI

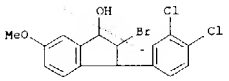


AB A series of methoxy-containing derivs. of indatraline, e.g., I (R = R2 = H, R1 = OMe) were synthesized, and their binding affinities for the dopamine, serotonin, and norepinephrine transporter binding sites were determined Introduction of a methoxy group to indatraline affected its affinity and selectivity greatly. Except for the 4-methoxy derivative I (R = OMe, R1 =R2 = H), which had the same high affinity at the dopamine transporter binding site as indatraline, the other methoxy-containing analogs exhibited lower affinity than indatraline for the three transporter binding sites. However, some of the analogs were more selective than indatraline, and the 6-methoxy derivative I (R = R2 = H, R1 = OMe) displayed the highest affinity for both the serotonin and norepinephrine transporters. This compound retained reasonable affinity for the dopamine transporter and is a promising template for the development of a long-acting inhibitor of monoamine transporters. Such inhibitors have potential as medications for treatment, as a substitution medication, or for prevention of the abuse of methamphetamine-like stimulants.

IT **321525-38-6P 321525-66-0P 321532-24-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of methoxy derivs. of indatraline and their binding affinities for dopamine, serotonin and norepinephrine transporter binding sites)

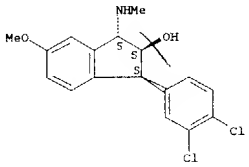
RN 321525-38-6 CAPLUS

L60 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Inden-1-ol, 2-bromo-3-(3,4-dichlorophenyl)-2,3-dihydro-6-methoxy- (9CI) (CA INDEX NAME)

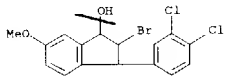


RN 321525-66-0 CAPLUS
CN 1H-Inden-2-ol, 1-(3,4-dichlorophenyl)-2,3-dihydro-5-methoxy-3-(methylamino)-, (1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 321532-24-5 CAPLUS
CN 1H-Inden-1-ol, ar,2-dibromo-3-(3,4-dichlorophenyl)-2,3-dihydro-6-methoxy- (9CI) (CA INDEX NAME)

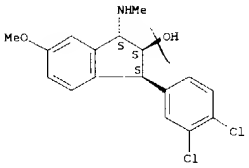


D1—Br

IT **321525-39-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of methoxy derivs. of indatraline and their binding affinities
for dopamine, serotonin and norepinephrine transporter binding sites)
RN 321525-39-7 CAPLUS
CN 1H-Inden-2-ol, 1-(3,4 dichlorophenyl)-2,3-dihydro-5-methoxy-3-(methylamino)-, hydrochloride, (1R,2R,3R)-rel- (9CI) (CA INDEX NAME)

L60 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Relative stereochemistry.



● HCl

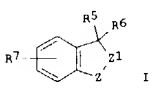
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:355727 CAPLUS
DOCUMENT NUMBER: 131:18844
TITLE: Preparation of 3,3-diphenylindanes and analogs as Ca2+-activated K+ channel inhibitors
INVENTOR(S): Brugnara, Carlo; Halperin, Jose; Bellot, Emile M., Jr.; Froimowitz, Mark; Lombardy, Richard John; Clifford, John J.; Gao, Ying-Duo; Haidar, Reem M.; Kelleher, Eugene W.; Kher, Falguni M.; Moussa, Adel M.; Sachdeva, Yesh P.; Sun, Minghua; Taft, Heather N.; Lencer, Wayne I.; Alper, Seth
PATENT ASSIGNEE(S): Children's Medical Center Corporation, USA; President and Fellows of Harvard College; Ion Pharmaceuticals, Inc.
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9926624	A1	19990603	WO 1998-US24968	19981120
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002004519	A1	20020110	US 1998-159331	19980923
CA 2311129	AA	19990603	CA 1998-2311129	19981120
AU 9915988	A1	19990615	AU 1999-15988	19981120
EP 1032385	A1	20000906	EP 1998-960381	19981120
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE				
JP 2001523717	T2	20011127	JP 2000-521826	19981120
US 2002128256	A1	20020912	US 2001-880728	20010613

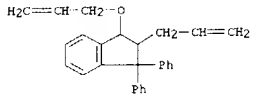
PRIORITY APPLN. INFO.: US 1997-975595 A 19971120
US 1998-159331 A 19980923
US 1998-159336 A 19980923
WO 1998-US24968 W 19981120

OTHER SOURCE(S): MARPAT 131:18844
GI

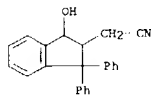


AB Title compds. [I; Z = CR1R2 or NR1; Z1 = CR3YR4; R1 = OR, SR, O2CR, etc.; R = H, alkyl, aryl, etc.; R1,R3 = H; R1R2 = O, S, NOR, atoms to complete a heterocyclic ring; R1R3,R2R3 = bond; R4 = H, OH, alkoxy, cyano, (di)(alkyl)amino, etc.; R5,R6 = (un)substituted Ph; R7 = H or 1-4 of halo, alkyl, alkoxy, etc.; Y = bond, alk(en)ylene, alkynylene] were prepared

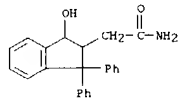
L60 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Thus, Ph3CCH2CO2H was cyclized and the product oximated to give I (R5 = R6 = Ph, R7 = H, Z = C(:NOH), Z1 = CH2]. Data for biol. activity of I were given.
IT **226087-89-4P 226087-95-2P 226087-96-3P**
226088-02-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3,3-diphenylindanes and analogs as Ca2+-activated K+ channel inhibitors)
RN 226087-89-4 CAPLUS
CN 1H-Indene, 2,3-dihydro-1,1-diphenyl-2-(2-propenyl)-3-(2-propenyloxy)- (9CI) (CA INDEX NAME)



RN 226087-95-2 CAPLUS
CN 1H-Indene-2-acetonitrile, 2,3-dihydro-3-hydroxy-1,1-diphenyl- (9CI) (CA INDEX NAME)

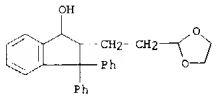


RN 226087-96-3 CAPLUS
CN 1H-Indene-2-acetamide, 2,3-dihydro-3-hydroxy-1,1-diphenyl- (9CI) (CA INDEX NAME)



RN 226088-02-4 CAPLUS
CN 1H-Inden-1-ol, 2-[2-(1,3-dioxolan-2-yl)ethyl]-2,3-dihydro-3,3-diphenyl- (9CI) (CA INDEX NAME)

L60 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



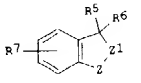
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:355715 CAPLUS
DOCUMENT NUMBER: 131:18843
TITLE: Preparation of 3,3-diphenylindanes and analogs as Ca2+-activated K+ channel inhibitors
INVENTOR(S): Brugnara, Carlo; Halperin, Jose; Fluckiger, Rudolf; Bellott, Emile M., Jr.; Lombardy, Richard John; Clifford, John J.; Gao, Ying-Duo; Haidar, Reem M.; Kelleher, Eugene W.; Moussa, Adel M.; Sachdeva, Yesh P.; Sun, Minghua; Taft, Heather N.
PATENT ASSIGNEE(S): President and Fellows of Harvard College, USA; Children's Medical Center Corporation; Ion Pharmaceuticals, Inc.
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9926611	A1	19990603	WO 1998-US24819	19981120
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6127407	A	20001003	US 1997-975391	19971120
CA 2310750	AA	19990603	CA 1998-2310750	19981120
AU 9924483	A1	19990615	AU 1999-24483	19981120
AU 745639	B2	20020328		
EP 1047411	A1	20001102	EP 1998-966732	19981120
EP 1047411	B1	20040211		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9815576	A	20010717	BR 1998-15576	19981120
JP 2001523709	T2	20011127	JP 2000-521813	19981120
US 2002198188	A1	20021226	US 2002-43640	20020110

PRIORITY APPLN. INFO.: US 1997-975391 A1 19971120
WO 1998-US24819 W 19981120
US 2000-554849 B1 20000922

OTHER SOURCE(S): MARPAT 131:18843
GI

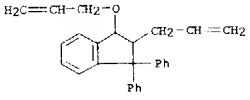


L60 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

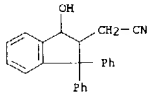
AB Title compds. [I; Z = CR1R2 or NR1; Z1 = CR3YR4; R1 = OR, SR, O2CR, etc.; R = H, alkyl, aryl, etc.; R1,R3 = H; R1R2 = O, S, NOR, atoms to complete a heterocyclic ring; R1R3,R2R3 = bond; R4 = H, OH, alkoxy, cyano, (di)(alkyl)amino, etc.; R5,R6 = (un)substituted Ph; R7 = H or 1-4 of halo, alkyl, alkoxy, etc.; Y = bond, alk(en)ylene, alkynylene] were prepared Thus, Ph3CCH2CO2H was cyclized and the product oximated to give I [R5 = R6 = Ph, R7 = H, Z = C(:NOH), Z1 = CH2]. Data for biol. activity of I were given.

IT **226087-89-4P 226087-95-2P 226087-96-3P**
226088-02-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3,3-diphenylindanes and analogs as Ca2+-activated K+ channel inhibitors)

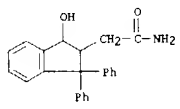
RN 226087-89-4 CAPLUS
CN 1H-Indene, 2,3-dihydro-1,1-diphenyl-2-(2-propenyl)-3-(2-propenyloxy)- (9CI) (CA INDEX NAME)



RN 226087-95-2 CAPLUS
CN 1H-Indene-2-acetonitrile, 2,3-dihydro-3-hydroxy-1,1-diphenyl- (9CI) (CA INDEX NAME)

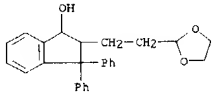


RN 226087-96-3 CAPLUS
CN 1H-Indene-2-acetamide, 2,3-dihydro-3-hydroxy-1,1-diphenyl- (9CI) (CA INDEX NAME)



L60 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 226088-02-4 CAPLUS
CN 1H-Inden-1-ol, 2-[2-(1,3-dioxolan-2-yl)ethyl]-2,3-dihydro-3,3-diphenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

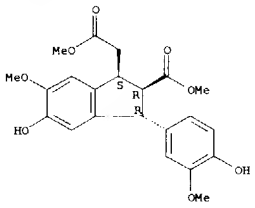
L60 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:698798 CAPLUS
DOCUMENT NUMBER: 130:119054
TITLE: SAR analysis of the Epstein-Barr virus DNA polymerase inhibitors
AUTHOR(S): Lin, Mei-Tsu; Liu, Karin C. S. Chen; Kuo, Yueh-Hsiung; Chiou, Jwo-Farn; Ren, Shijun; Lien, Eric J.
CORPORATE SOURCE: School of Pharmacy, College of Medicine, National Taiwan University, Taipei, Taiwan
SOURCE: Chinese Pharmaceutical Journal (Taipei) (1998), 50(1), 13-24
CODEN: CPHJEP; ISSN: 1016-1015
PUBLISHER: Pharmaceutical Society of Republic of China
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A semiquant. structure-activity relation of forty-nine compds. including lignans, phenols and α,β-unsatd.-γ-lactones was analyzed by using a parameter-frame-setting method. Based on the result, a quant. anal. was performed and a statistically significant correlation was obtained between the inhibitory activities (log 1/IC50) of 16 compds. against Epstein-Barr virus DNA polymerase (EBV-DP) and physicochem. parameters (calculated molar refractivity (CMR), calculated partition coefficient in octanol/water (Clog P) and mol. dipole moment (μ)). The structural requirements for the optimum activity against EBV-DP of these groups of compds. were identified. These findings provide physicochem. bases for further structural modification and optimization of the lead natural products for antiviral activity.

IT **219795-21-8**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(QSAR anal. of Epstein-Barr virus DNA polymerase inhibitors in relation to antiviral activity)

RN 219795-21-8 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-2-(methoxycarbonyl)-, methyl ester, (1S,2R,3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L60 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:118608 CAPLUS
DOCUMENT NUMBER: 128:184694
TITLE: Endothelin receptor antagonists
INVENTOR(S): Elliott, John Duncan; Lago, Maria Amparo
PATENT ASSIGNEE(S): Smithkline Beecham Corp., USA
SOURCE: U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 336,444.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5716985	A	19980210	US 1995-450938	19950523
CZ 287406	B6	20001115	CZ 1994-1109	19921029
ZA 9208467	A	19930505	ZA 1992-8467	19921103
ES 2062927	B1	19950701	ES 1992-2548	19921217
ES 2062927	A1	19941216		
US 5817693	A	19981006	US 1994-336444	19941109
PRIORITY APPLN. INFO.:			US 1991-787870 B2	19911105
			US 1992-854195 B2	19920320
			US 1993-66818 B2	19930427
			US 1994-336444 A2	19941109
			CS 1994-1109 A	19921029

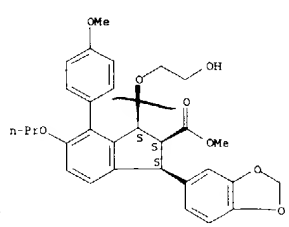
OTHER SOURCE(S): MARPAT 128:184694

AB Novel indane and indene derivs. are described which are endothelin receptor antagonists. E.g., (1RS,2SR,3RS)-3-[2-(2-hydroxy-1-ethoxy)-4-methoxyphenyl]-1-(3,4-methylenedioxyphenyl)-5-(1-propoxy)indan-2-carboxylic acid was prepared A inhalant formulation was given.

IT **203396-18-3P 203396-19-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(indan derivs. as endothelin receptor antagonists)

RN 203396-18-3 CAPLUS
CN 1H-Indene-2-carboxylic acid, 1-(1,3-benzodioxol-5-yl)-2,3-dihydro-3-(2-hydroxyethoxy)-4-(4-methoxyphenyl)-5-propoxy-, methyl ester, [1S-(1α,2α,3α)]- (9CI) (CA INDEX NAME)

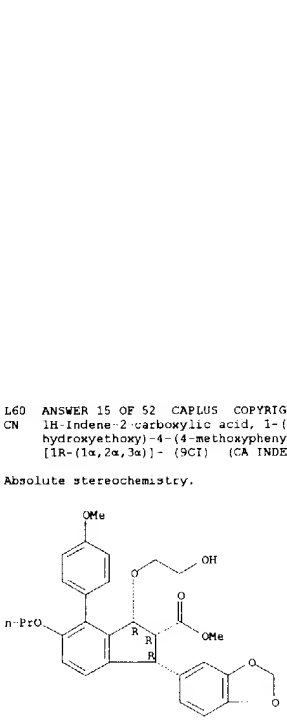
Absolute stereochemistry.



RN 203396-19-4 CAPLUS

L60 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Indene-2-carboxylic acid, 1-(1,3-benzodioxol-5-yl)-2,3-dihydro-3-(2-hydroxyethoxy)-4-(4-methoxyphenyl)-5-propoxy-, methyl ester, [1R-(1α,2α,3α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



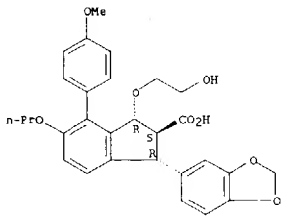
IT **203396-14-9P 203396-15-0P 203396-20-7P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(indan derivs. as endothelin receptor antagonists)

RN 203396-14-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 1-(1,3-benzodioxol-5-yl)-2,3-dihydro-3-(2-hydroxyethoxy)-4-(4-methoxyphenyl)-5-propoxy-, (1α,2β,3α)-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

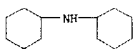
CRN 203396-13-8
CMF C29 H30 O8

Relative stereochemistry.



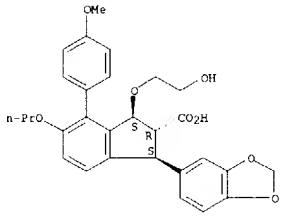
CM 2

L60 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CRN 101-83-7
CMF C12 H23 N



RN 203396-15-0 CAPLUS
CN 1H-Indene-2-carboxylic acid, 1-(1,3-benzodioxol-5-yl)-2,3-dihydro-3-(2-hydroxyethoxy)-4-(4-methoxyphenyl)-5-propoxy-, [1S-(1α,2β,3α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



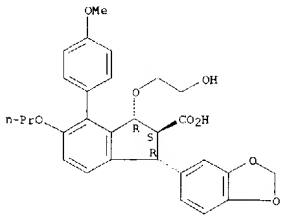
RN 203396-20-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 1-(1,3-benzodioxol-5-yl)-2,3-dihydro-3-(2-hydroxyethoxy)-4-(4-methoxyphenyl)-5-propoxy-, (1α,2β,3α)-, compd. with acetic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 203396-13-8
CMF C29 H30 O8

Relative stereochemistry.

L60 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

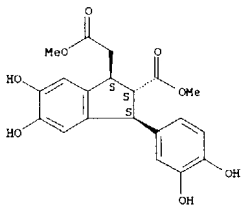


CM 2

CRN 64-19-7
CMF C2 H4 O2

L60 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:341754 CAPLUS
DOCUMENT NUMBER: 127:47693
TITLE: Isolation and synthesis of new antioxidants from sunflower seeds
AUTHOR(S): Kato, Tadahiro; Takahashi, Wataru; Suzuki, Yoshiaki
CORPORATE SOURCE: Fac. Sci., Sci. Univ. Tokyo, Tokyo, 162, Japan
SOURCE: Natural Product Letters (1997), 9(3), 161-165
CODEN: NPLEEF; ISSN: 1057-5634
PUBLISHER: Harwood
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Structure elucidation and synthesis of 2 arylindane-type phenolic antioxidants from sunflower seeds is reported. The structures were determined by extensive spectroscopic anal., and finally were confirmed by comparison of their spectral data with those of authentic samples prepared by dimerization of 3,4-dihydroxycinnamate with CF3CO2H.
IT **191280-19-0P 191280-20-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(isolation, synthesis, and structure of antioxidative (hydroxyphenyl)indanes from sunflower seeds)
RN 191280-19-0 CAPLUS
CN 1H-Indene-1-acetic acid, 3-(3,4-dihydroxyphenyl)-2,3-dihydro-5,6-dihydroxy-2-(methoxycarbonyl)-, methyl ester, (1α,2β,3α)-(+)- (9CI) (CA INDEX NAME)

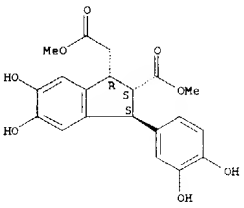
Rotation (+). Absolute stereochemistry unknown.
Currently available stereo shown.



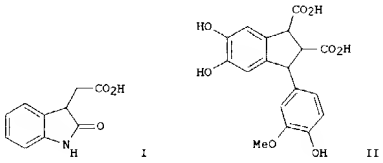
RN 191280-20-3 CAPLUS
CN 1H-Indene-1-acetic acid, 3-(3,4-dihydroxyphenyl)-2,3-dihydro-5,6-dihydroxy-2-(methoxycarbonyl)-, methyl ester, (1α,2α,3β)-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.
Currently available stereo shown.

L60 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L60 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:281029 CAPLUS
DOCUMENT NUMBER: 126:274754
TITLE: The Secalosides, Novel Tumor Cell Growth Inhibitory Glycosides from a Pollen Extract
AUTHOR(S): Jaton, Jean-Claude; Roulin, Karen; Rose, Keith; Sirotnak, Francis M.; Lewenstein, Ari; Brunner, Gerard; Fankhauser, Catherine P.; Burger, Ulrich
CORPORATE SOURCE: Department of Medical Biochemistry, University of Geneva, Geneva, CH-1211, Switz.
SOURCE: Journal of Natural Products (1997), 60(4), 356-360
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I II

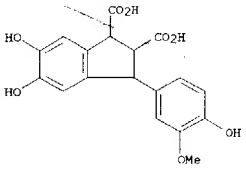
AB The pollen of rye (Secale cereale) is shown to contain a biol. highly active family of glycosides called the secalosides. Secalosides A and B, both of mol. formula C46H51NO24, were found to be epimeric esters of (2-oxo-3-indolyl)acetic acid (I). They are made up, in addition to this heterocyclic aglycon I (I), of three hexose building blocks and a carbocyclic aglycon II, which is an indan-derived dicarboxylic acid (II). In aqueous solution, secalosides A and B interchanged by epimerization at the chiral center of I. A further epimeric pair, secalosides C and D, contain one addnl. glucose building block, were also isolated. Secalosides A and B, I , and 2-oxo-1,2,3,4-tetrahydroquinoline-4-carboxylic acid, which results from I by hydrolytic rearrangement, exhibited significant antitumor activity against S180 sarcoma in vivo. IC50 values obtained were about 5 μg/mouse for the secalosides and 1 μg/mouse for 3 and 4.

IT **188788-47-8**
RL: PRP (Properties)
(secaloside aglycon)

RN 188788-47-8 CAPLUS
CN 1H-Indene-1,2-dicarboxylic acid, 2,3-dihydro-5,6-dihydroxy-3-(4-hydroxy-3-methoxyphenyl)- (9CI) (CA INDEX NAME)

Currently available stereo shown.

L60 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L60 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:220522 CAPLUS
DOCUMENT NUMBER: 126:207507
TITLE: New glycosides from pollen and their sugar-free degradation products and derivatives
INVENTOR(S): Jaton, Jean-Claude; Marazza, Fabrizio; Lewenstein, Ari; Sirotnak, Francis M.; Jaun, Bernhard
PATENT ASSIGNEE(S): Cerbios-Pharma S.A., Switz.
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 757055	A2	19970205	EP 1996-110132	19960623
EP 757055	A3	19980422		
EP 757055	B1	19991027		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
AT 186054	E	19991115	AT 1996-110132	19960623
US 5712377	A	19980127	US 1996-672651	19960628
JP 09104693	A2	19970422	JP 1996-171464	19960701

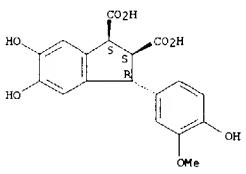
PRIORITY APPLN. INFO.: CH 1995-1930 19950630

AB Complex glycosides were isolated from pollen (especially rye pollen) by dialysis, gel filtration, and HPLC, and the structures of some of these and of their hydrolytically produced aglycons were determined Some of the aglycons possessed the structure of indandicarboxylic acids. Some of the glycosides possessed antitumor activity in mice but not against tumor cell cultures in vitro, indicating that the in vivo activity could be attributed to an immunomodulating action and not to a direct cytotoxic effect of the compds. An antiviral action of the compds. is also claimed.

IT **187988-53-0P**
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(purification and antitumor and immunomodulator activity of glycosides and aglycons from pollen)

RN 187988-53-0 CAPLUS
CN 1H-Indene-1,2-dicarboxylic acid, 2,3-dihydro-5,6-dihydroxy-3-(4-hydroxy-3-methoxyphenyl)-, [1S-(1α,2α,3β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L60 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L60 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:509814 CAPLUS
DOCUMENT NUMBER: 125:167593
TITLE: Indanecarboxamide derivatives useful as NK3 receptor antagonists
INVENTOR(S): Girard, Gerald R.; Weinstock, Joseph
PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620193	A1	19960704	WO 1995-US13058	19951013
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 799225	A1	19971008	EP 1995-938210	19951013
R: BE, CH, DE, DK, FR, GB, IT, LI, NL				
JP 10512855	T2	19981208	JP 1995-520428	19951013

PRIORITY APPLN. INFO.: US 1994-363501 19941223
WO 1995-US13058 19951013
OTHER SOURCE(S): MARPAT 125:167593
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

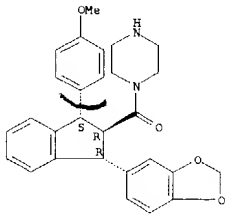
AB The invention relates to indane amide derivs. I, processes for their preparation, and their use in treating NK3-mediated disease states [wherein R1-R5 = H, alk(en)yl, haloalkyl, alkoxy, halo, OH, (un)substituted aryl, cycloalk(en)yl, CO2H, etc.; or R2R3 and/or R4R5 = O(CH2)rO (r=1-3), or form 5-, 6-, or 7-membered ring; a = 1-3; R6, R7 = H, (un)substituted aroyl, arylsulfonyl, (hetero)aryl, alkyl, alkenyl, NR8R9, etc.; R8, R9 = as given for R6; or R6R7 or R8R9 form 5-, 6-, or 7-membered ring; m = 0-3; provided that R6 and R7 are not each H when m = 0]. Twenty-six specific examples of I are given. For instance, (±)-(1α,2β,3α)-1-(4-methoxyphenyl)-3-(3,4-methylenedioxyphenyl)indane-2-carboxylic acid was converted to the acid chloride with SOCl2, followed by amidation of the chloride with aqueous MeNH2 in Et2O, to give 72% title compound II. In assays for inhibition of binding of radiolabeled NK3 ligands such as [3H]-senktide to guinea pig and human NK3 receptors in vitro, the most potent examples of I (not specified) had IC50 values in the range of 10 μM. NK3 antagonist activity was demonstrated by inhibition of senktide-induced contraction of guinea pig ileum in vitro.

IT **180057-91-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of indanecarboxamide derivs. as NK3 receptor antagonists)

RN 180057-91-4 CAPLUS
CN Piperazine, 1-[[(1R,2R,3S)-1-(1,3-benzodioxol-5-yl)-2,3-dihydro-3-(4-

L60 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
methoxyphenyl)-1H-inden-2-yl]carbonyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



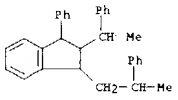
L60 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:469599 CAPLUS
DOCUMENT NUMBER: 125:143367
TITLE: Stopped-Flow Investigation of Trifluoromethanesulfonic Acid Initiated Cationic Oligomerization of trans-1,3-Diphenyl-1-butene. 1. Analysis of products and UV-Visible Spectroscopic Study
AUTHOR(S): Charleux, Bernadette; Rives, Alain; Vairon, Jean-Pierre; Matyjaszewski, Krzysztof
CORPORATE SOURCE: Laboratoire de Chimie Macromoleculaire, Universite Pierre et Marie Curie, Paris, 75252, Fr.
SOURCE: Macromolecules (1996), 29(18), 5777-5783
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Cationic oligomerization of the trans ethylenic dimer of styrene, 1,3-diphenyl-1-butene (D), initiated with triflic acid was investigated using the high-purity stopped-flow technique coupled with UV-visible spectroscopy. The dimer was protonated to the distyryl cation, 1,3-diphenyl-1-butylium (D+), which absorbs at 340 nm, as expected from styrene polymerization results. This species appeared quickly and reached its maximum within .apprx.1 s at below -64° and then decreased slowly during .apprx.1 min. The higher the temperature, the lower the intensity of this peak and the shorter the time to reach its maximum. The D+ either cyclizes to 1-methyl-3-phenylindan or reacts with D to produce oligomers, and these two reactions lead to a complete consumption of the double bond as evidenced by a decrease of the 296 nm optical d. The main final products of the reaction were always indan styrene tetramers (dimers of 1,3-diphenyl-1-butene) and the proportion of 1-methyl-3-phenylindan was higher when the temperature was increased. No styrene trimers or pentamers were detected although they are formed at temps. >50°. Two other absorptions appearing immediately after mixing and increasing more slowly than the 340 nm peak were observed at 349 and 505 nm; they reached a very stable plateau below -30°, but at higher temps., they passed through a maximum and were replaced by two other peaks at 316 and 415 nm. The 349 and 505 nm peaks were attributed to the same cationic species, plausibly an allylic cation, 1,3-diphenyl-1-buten-3-ylium, produced by hydride abstraction from trans-1,3-diphenyl-1-butene. At above -30°, the absorptions at 316 and 415 nm were assigned to indanylium cations resulting from different cyclic species produced during the course of the reaction. The process described above can be considered as a model system for the behavior of the unsatd. chain ends in the cationic polymerization of styrene.

IT **180140-69-6P**, 1-Phenyl-2-(1-phenylethyl)-3-(2-phenylpropyl)indan
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation by cationic oligomerization of styrene dimer as model for styrene polymerization)

RN 180140-69-6 CAPLUS
CN 1H-Indene, 2,3-dihydro-1-phenyl-2-(1-phenylethyl)-3-(2-phenylpropyl)- (9CI) (CA INDEX NAME)

L60 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

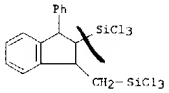


L60 ANSWER 21 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:69733 CAPLUS
DOCUMENT NUMBER: 124:203194
TITLE: β-Trichlorosilylstyrene oligomers
AUTHOR(S): Brook, Michael A.; Sebastian, Thomas; Huelser, Peter; Jueschke, Ralf; Wenzel, Stefan; Townsend, Jennifer A.; Falletta, Patricia R.
CORPORATE SOURCE: Dep. Chem., McMaster Univ., Hamilton, ON, L8S 4M1, Can.
SOURCE: Canadian Journal of Chemistry (1995), 73(11), 1794-802
CODEN: CJCHAG; ISSN: 0008-4042
PUBLISHER: National Research Council of Canada
DOCUMENT TYPE: Journal
LANGUAGE: English

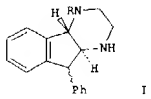
AB Under cationic conditions using triflic acid as the initiator, it is possible to oligomerize β-trichlorosilylstyrene to low-mol.-weight oligomers with a maximum d.p. of .apprx.9. Termination of the process occurs by an intramol. Friedel-Crafts reaction, leading to highly functionalized, indane-terminated oligomers. At lower temps., the reaction is diastereoselective. The oligomerization process was shown to require electron-withdrawing groups on Si; the replacement of Cl spectator ligands with alkoxy or alkyl groups led to protiodesilylation. The mechanisms for formation of the indane-terminated oligomers is discussed.

IT **121987-99-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(oligomerization of trichlorosilylstyrene in presence of triflic acid catalysts)

RN 121987-99-3 CAPLUS
CN Silane, trichloro[[2,3-dihydro-3-phenyl-2-(trichlorosilyl)-1H-inden-1-yl]methyl]- (9CI) (CA INDEX NAME)



L60 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:942739 CAPLUS
DOCUMENT NUMBER: 124:176009
TITLE: Potential antidepressants. Synthesis and stereochemistry of hexahydro-9-phenyl-1H-indeno[1,2-b]pyrazines
AUTHOR(S): Chahboun, S.; Gelbcke, M.; Smith, D. F.
CORPORATE SOURCE: Lab. Chim. Pharm. Org., Univ. Libre Bruxelles, Brussels, B-1050, Belg.
SOURCE: Bulletin des Societes Chimiques Belges (1995), 104(10), 613-22
CODEN: BSCBAG; ISSN: 0037-9646
PUBLISHER: Societe Chimique Belges
DOCUMENT TYPE: Journal
LANGUAGE: French
GI



I

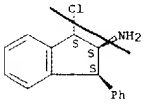
AB The synthesis of diastereoisomeric 1H-indeno[1,2-b]pyrazines (1, R = H, Me) is described, using as a key step for piperazine ring formation an alkoxyphosphonium salt.

IT **173279-21-5P 173279-22-6P 173279-23-7P**
173395-92-1P 173395-93-2P 173395-94-3P
173395-95-4P 173395-96-5P 173395-97-6P
173395-98-7P 173395-99-8P 173396-00-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and stereochem. of hexahydro-9-phenyl-1H-indeno[1,2-b]pyrazines)

RN 173279-21-5 CAPLUS
CN 1H-Inden-2-amine, 1-chloro-2,3-dihydro-3-phenyl-, hydrochloride, [1S-(1α,2β,3β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

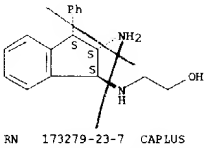
L60 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● HCl

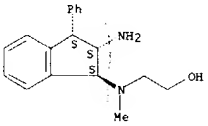
RN 173279-22-6 CAPLUS
CN Ethanol, 2-[(2-amino-2,3-dihydro-3-phenyl-1H-inden-1-yl)amino]-, [1S-(1α,2β,3β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 173279-23-7 CAPLUS
CN Ethanol, 2-[(2-amino-2,3-dihydro-3-phenyl-1H-inden-1-yl)methylamino]-, [1S-(1α,2β,3β)]- (9CI) (CA INDEX NAME)

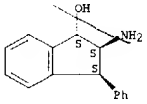
Absolute stereochemistry.



RN 173395-92-1 CAPLUS
CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-3-phenyl-, [1S-(1α,2β,3β)]- (9CI) (CA INDEX NAME)

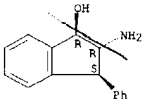
Absolute stereochemistry.

L60 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



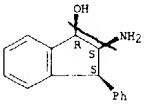
RN 173395-93-2 CAPLUS
CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-3-phenyl-, [1R-(1α,2β,3α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



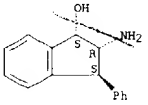
RN 173395-94-3 CAPLUS
CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-3-phenyl-, [1R-(1α,2α,3α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



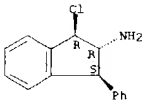
RN 173395-95-4 CAPLUS
CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-3-phenyl-, [1S-(1α,2α,3β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 173395-96-5 CAPLUS
CN 1H-Inden-2-amine, 1-chloro-2,3-dihydro-3-phenyl-, hydrochloride, [1R-(1α,2β,3α)]- (9CI) (CA INDEX NAME)

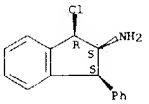
L60 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



● HCl

RN 173395-97-6 CAPLUS
CN 1H-Inden-2-amine, 1-chloro-2,3-dihydro-3-phenyl-, hydrochloride, [1R-(1α,2α,3α)]- (9CI) (CA INDEX NAME)

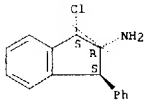
Absolute stereochemistry.



● HCl

RN 173395-98-7 CAPLUS
CN 1H-Inden-2-amine, 1-chloro-2,3-dihydro-3-phenyl-, hydrochloride, [1S-(1α,2α,3β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

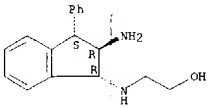


● HCl

RN 173395-99-8 CAPLUS
CN Ethanol, 2-[(2-amino-2,3-dihydro-3-phenyl-1H-inden-1-yl)amino]-,

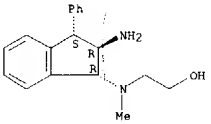
L60 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
[1R-(1α,2β,3α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

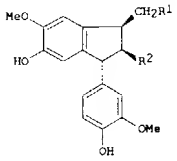


RN 173396-00-4 CAPLUS
CN Ethanol, 2-[(2-amino-2,3-dihydro-3-phenyl-1H-inden-1-yl)methylamino]-, [1R-(1α,2β,3α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L60 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:834144 CAPLUS
DOCUMENT NUMBER: 124:55651
TITLE: Studies on acidic dimerization of 3,4-dioxygenated cinnamate or 1-phenylpropene to arylindane lignans
AUTHOR(S): Kuo, Yueh-Hsiung; Wu, Chien-Huang; Wu, Rong-En; Lin, Sheng-Tsai
CORPORATE SOURCE: Dep. Chem., Natl. Taiwan Univ., Taipei, Taiwan
SOURCE: Chemical & Pharmaceutical Bulletin (1995), 43(8), 1267-71
CODEN: CPBTAL; ISSN: 0009-2363
PUBLISHER: Pharmaceutical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:55651
GI

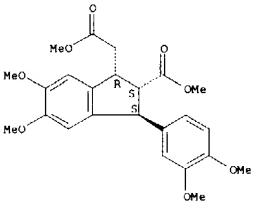


I

AB The TsOH-catalyzed dimerization of (E)-ferulic acid gave the arylindan lignans I [R1 = H, CO2H, CO2Me, R2 = CO2Me; R1 = CO2Me, R2 = CO2H]. The HCO2H-catalyzed dimerization of (E)-ferulate similarly gave I [R1 = H, CO2Me, R2 = CO2Me]. These I were converted to some other derivs. The structures of the products were elucidated and a mechanism is proposed for the reactions.
IT **144878-41-1P 144878-42-2P 144878-47-7P**
172092-18-1P 172092-19-2P 172092-21-6P
172092-22-7P 172092-25-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(dimerization of ferulate to arylindan lignans)
RN 144878-41-1 CAPLUS
CN 1H-Indene-1-acetic acid, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxycarbonyl)-, methyl ester, (1α,2α,3β)- (9CI) (CA INDEX NAME)

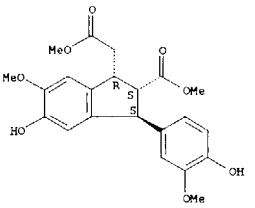
Relative stereochemistry.

L60 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



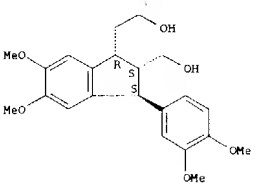
RN 144878-42-2 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-2-(methoxycarbonyl)-, methyl ester, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 144878-47-7 CAPLUS
CN 1H-Indene-1-ethanol, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-2-(hydroxymethyl)-5,6-dimethoxy-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

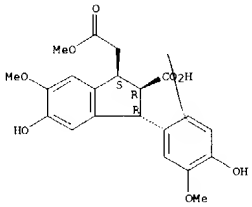
Relative stereochemistry.



L60 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

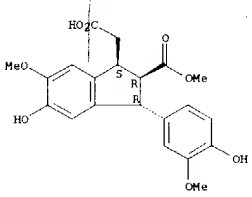
RN 172092-18-1 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-, α-methyl ester, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 172092-19-2 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-2-(methoxycarbonyl)-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

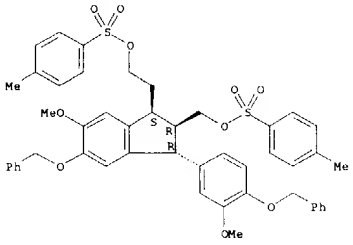
Relative stereochemistry.



RN 172092-21-6 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-3-[3-methoxy-4-(phenylmethoxy)phenyl]-5-(phenylmethoxy)-, methyl ester, (1α,2α,3β)- (9CI) (CA INDEX NAME)

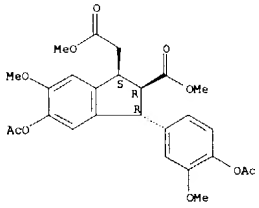
Relative stereochemistry.

L60 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT **172092-20-5P 172092-23-8P 172092-24-9P 172092-27-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(dimerization of ferulate to arylindan lignans)
RN 172092-20-5 CAPLUS
CN 1H-Indene-1-acetic acid, 5-(acetyloxy)-3-[4-(acetyloxy)-3-methoxyphenyl]-2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-, methyl ester, (1α,2α,3β)- (9CI) (CA INDEX NAME)

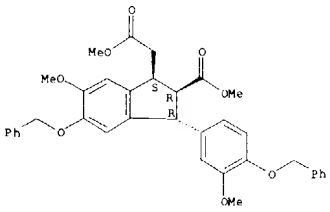
Relative stereochemistry.



RN 172092-23-8 CAPLUS
CN 1H-Indene, 1-(2-chloroethyl)-2-(chloromethyl)-2,3-dihydro-6-methoxy-3-[3-methoxy-4-(phenylmethoxy)phenyl]-5-(phenylmethoxy)-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

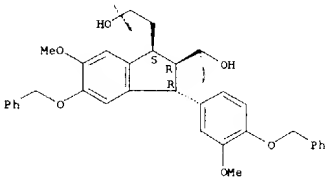
Relative stereochemistry.

L60 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 172092-22-7 CAPLUS
CN 1H-Indene-1-ethanol, 2,3-dihydro-2-(hydroxymethyl)-6-methoxy-3-[3-methoxy-4-(phenylmethoxy)phenyl]-5-(phenylmethoxy)-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

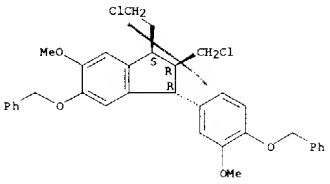
Relative stereochemistry.



RN 172092-25-0 CAPLUS
CN 1H-Indene-1-ethanol, 2,3-dihydro-6-methoxy-3-[3-methoxy-4-(phenylmethoxy)phenyl]-2-[[[(4-methylphenyl)sulfonyl]oxy]methyl]-5-(phenylmethoxy)-, 4-methylbenzenesulfonate, (1α,2α,3β)- (9CI) (CA INDEX NAME)

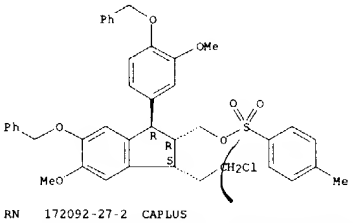
Relative stereochemistry.

L60 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



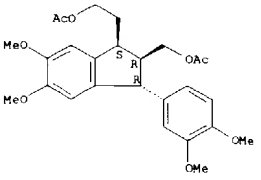
RN 172092-24-9 CAPLUS
CN 1H-Indene-2-methanol, 3-(2-chloroethyl)-2,3-dihydro-5-methoxy-1-[3-methoxy-4-(phenylmethoxy)phenyl]-6-(phenylmethoxy)-, 4-methylbenzenesulfonate, (1α,2β,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 172092-27-2 CAPLUS
CN 1H-Indene-1-ethanol, 2-[(acetyloxy)methyl]-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-, acetate, (1α,2α,3β)- (9CI) (CA INDEX NAME)

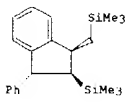
Relative stereochemistry.



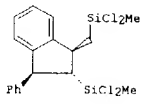
L60 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L60 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN

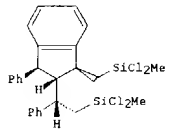
ACCESSION NUMBER: 1995:819663 CAPLUS
DOCUMENT NUMBER: 124:56024
TITLE: Electrophilic additions to styrylsilanes: the effect of changing the ligands on silicon
AUTHOR(S): Brook, Michael A.; Henry, Courtney; Jefferson, Elizabeth; Juschke, Ralf; Sebastian, Thomas; Tomaszewski, Mirek; Wenzel, Stefan
CORPORATE SOURCE: Dep. chem., McMaster Univ., Hamilton, ON, L8S 4M1, Can.
SOURCE: Bulletin de la Societe Chimique de France (1995), 132(5-6), 559-68
CODEN: BSCFAS; ISSN: 0037-8968
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:56024
GI



I



II



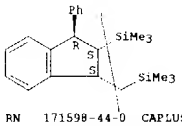
III

AB Styrylsilanes readily undergo addition of C electrophiles and protons. The products of the reaction depend upon the nonparticipating substituents on Si. Thus, while (E)-β-(trimethylsilyl)styrene 4 readily reacts with electrophiles, e.g., CH3COCl, the reaction products did not contain Si or new C-C bonds, e.g., PhCH:CHCOMe (72%); even in the presence of aryl-substituted C electrophiles, e.g., PhCH2COCl, the favored reaction was protiodesilylation to give 4-phenyl-3,4-dihydronaphthalen-2-one (52%). (E)-β-(trichlorosilyl)styrene 2 did not participate in the reaction with C electrophiles or reasonably strong protic acids. However, with triflic acid, 2 cleanly and diastereoselectively dimerized producing after methylation, {(trimethylsilyl)methyl]dihydroindene I, as shown by an x-ray crystal structure anal. The simple change of a Me for a chloro group in the starting material, i.e., PhCH:CHSiCl2Me, under the same reaction conditions produced a different dihydroindene diastereomer II along with a trimer III. The reasons for the changes in the reaction mechanism are

L60 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
discussed.

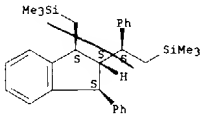
IT **132514-90-0P 171598-44-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(crystal structure)
RN 132514-90-0 CAPLUS
CN Silane, [[2,3-dihydro-3-phenyl-2-(trimethylsilyl)-1H-inden-1-yl]methyl]trimethyl-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



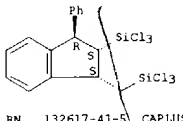
RN 171598-44-0 CAPLUS
CN Silane, [[2,3-dihydro-3-phenyl-2-[1-phenyl-2-(trimethylsilyl)ethyl]-1H-inden-1-yl]methyl]trimethyl-, [1α,2β(R*),3α]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **132617-40-4P 132617-41-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and attempted equilibration of isomers of)
RN 132617-40-4 CAPLUS
CN Silane, trichloro[[2,3-dihydro-3-phenyl-2-(trichlorosilyl)-1H-inden-1-yl]methyl]-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

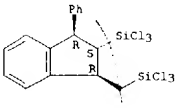
Relative stereochemistry.



RN 132617-41-5 CAPLUS
CN Silane, trichloro[[2,3-dihydro-3-phenyl-2-(trichlorosilyl)-1H-inden-1-yl]methyl]-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

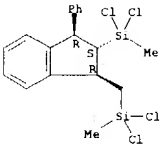
Relative stereochemistry.

L60 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



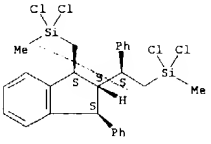
IT **132514-91-1P 171598-43-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)
RN 132514-91-1 CAPLUS
CN Silane, dichloro[[2-(dichloromethylsilyl)-2,3-dihydro-3-phenyl-1H-inden-1-yl]methyl]methyl-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 171598-43-9 CAPLUS
CN Silane, dichloro[2-[1-[(dichloromethylsilyl)methyl]-2,3-dihydro-3-phenyl-1H-inden-2-yl]-2-phenylethyl]methyl-, [1α,2β(R*),3α]- (9CI) (CA INDEX NAME)

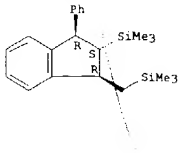
Relative stereochemistry.



IT **132617-42-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 132617-42-6 CAPLUS
CN Silane, [[2,3-dihydro-3-phenyl-2-(trimethylsilyl)-1H-inden-1-yl]methyl]trimethyl-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L60 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

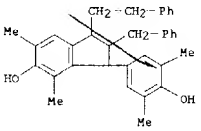


L60 ANSWER 25 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:654929 CAPLUS
DOCUMENT NUMBER: 121:254929
TITLE: Formation of Carbon-Carbon Bonds via Quinone Methide-Initiated Cyclization Reactions
AUTHOR(S): Angle, Steven R.; Arnaiz, Damian O.; Boyce, James P.; Frutos, Rogelio P.; Louie, Michael S.; Mattson-Arnaiz, Heather L.; Rainier, Jon D.; Turnbull, Kenneth D.; Yang, Wenjin
CORPORATE SOURCE: Department of Chemistry, University of California, Riverside, CA, 92521-0403, USA
SOURCE: Journal of Organic Chemistry (1994), 59(21), 6322 37
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:254929

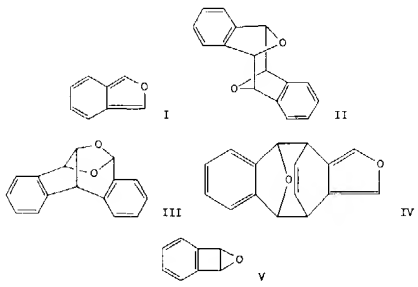
AB P-Quinone methides are excellent electrophilic cyclization initiators for the formation of six-membered rings. Cyclizations to form five- and seven-membered rings were also studied. Oxidation of 2,6-disubstituted phenols with Ag2O afforded the corresponding quinone methides. A wide range of cyclization terminators/nucleophiles are effective in the cyclizations, including allylsilane, β-keto esters, furan, pyrrole, indole, and a number of alkenes. The yields of the cyclizations were generally high.

IT **158555-68-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 158555-68-1 CAPLUS
CN 1H-Inden-5-ol, 2,3-dihydro-3-(4-hydroxy-3,5-dimethylphenyl)-4,6-dimethyl-1-(2-phenylethyl)-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



L60 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:244743 CAPLUS
DOCUMENT NUMBER: 120:244743
TITLE: The photochemistry of isobenzofuran. I. Structure of the dimers resulting from ultraviolet irradiation of isobenzofuran in acetone and ether solution
AUTHOR(S): Warrener, Ronald N.; Pitt, Ian G.; Russell, Richard A.
CORPORATE SOURCE: Cent. Mol. Archit., Univ. Cent. Queensland, Rockhampton, 4702, Australia
SOURCE: Australian Journal of Chemistry (1993), 46(10), 1515-34
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



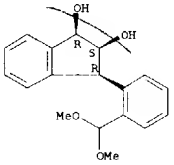
AB Irradiation of isobenzofuran (I) in acetone solution yields a sym. [π8s+π8s] dimer II involving bonding at the peri-position of the furan moiety in each mol. The anti-stereochem. of this dimer was established by a novel application of lanthanide induced shift spectroscopy. In contrast, irradiation of I in ether solution yielded the unsym. dimer III as the major product, together with lesser amts. of the sym. dimer II, and small amts. of a new dimer IV resulting from [π8s+π4s] cycloaddn., where the 8π system of the isobenzofuran of one mol. reacts with the carbocyclic 4π diene of the other. The structure of the unsym. dimer III was confirmed by synthesis. No evidence for the Dewar form V of isobenzofuran could be obtained in these reactions conducted at -60° and monitored by 1H-NMR spectroscopy. However, the small, but persistent, production of o-phthalaldehyde may implicate an intermediate derived from V.

IT **84657-76-1P 84710-53-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(intermediate in preparation of isobenzofuran dimer)

RN 84657-76-1 CAPLUS
CN 1H-Indene-1,2-diol, 3-[2-(dimethoxymethyl)phenyl]-2,3-dihydro-, (1α,2α,3α)- (9CI) (CA INDEX NAME)

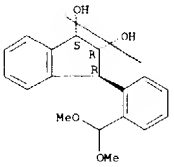
L60 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Relative stereochemistry.

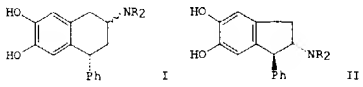


RN 84710-53-2 CAPLUS
CN 1H-Indene-1,2-diol, 3-[2-(dimethoxymethyl)phenyl]-2,3-dihydro-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



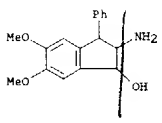
L60 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:233604 CAPLUS
DOCUMENT NUMBER: 118:233604
TITLE: Dopamine receptor agonists. I. Synthesis and pharmacological evaluation of 4-aryl-substituted analogs of 6,7-dihydroxy-2-aminotetralin (6,7-ADTN) and related indane compounds
AUTHOR(S): Bertolini, G.; Vecchietti, V.; Mabilia, M.; Norcini, G.; Restelli, A.; Santangelo, F.; Villa, A. M.; Casagrande, C.
CORPORATE SOURCE: Med. Chem. Dep., Zambon Res., Bresso, 20091, Italy
SOURCE: European Journal of Medicinal Chemistry (1992), 27(7), 663-72
CODEN: EJMCA5; ISSN: 0223-5234
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



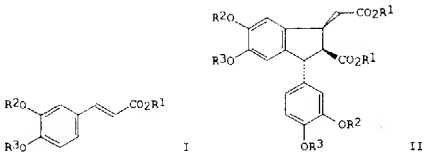
AB Derivs. of cis- and trans-4-phenyl-6,7-dihydroxy-2-aminotetraline I (R = H, Me, Pr) and trans-1-phenyl-5,6-dihydroxy-2-aminoindane II (R = H), Me, Pr) were synthesized as fenoldopam analogs. They showed no affinity for D1 and D2 binding sites in rat striatal membranes. Mol. modeling and NMR methods used in structural comparison with fenoldopam are discussed.

IT **146656-00-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydroxylation of)

RN 146656-00-0 CAPLUS
CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-5,6-dimethoxy-3-phenyl- (9CI) (CA INDEX NAME)



L60 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:22000 CAPLUS
DOCUMENT NUMBER: 118:22000
TITLE: Dimerization of 3,4-disubstituted cinnamic acids and esters
AUTHOR(S): Al-Farhan, Emile; Keehn, Philip M.; Stevenson, Robert
CORPORATE SOURCE: Dep. Chem., Brandeis Univ., Waltham, MA, 02254, USA
SOURCE: Synthesis (1992), (10), 959-61
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



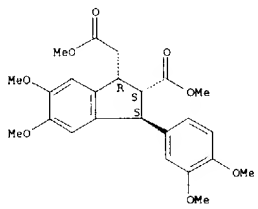
AB Cinnamic (3-phenylpropenoic) acids and esters bearing hydroxy and/or alkoxy groups at C-3 and C-4 on the benzene ring, I (R1 = Me, Et, H, R2 = Me, R3 = Me, Et, H; R2R3 = CH2), undergo cyclodimerization on treatment with trifluoroacetic acid to yield the corresponding [t-3-aryl-c-2-carboxy[or alkoxycarbonyl]-r-1-indanyl]acetic acids or esters II.

IT **144878-41-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

RN 144878-41-1 CAPLUS
CN 1H-Indene-1-acetic acid, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-2-(methoxycarbonyl)-, methyl ester, (1α,2α,3β) (9CI) (CA INDEX NAME)

Relative stereochemistry.

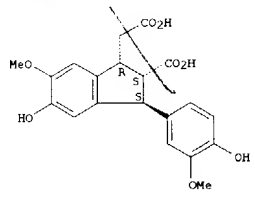
L60 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT **128440-94-8P 144878-42-2P 144878-43-3P**
144878-44-4P 144878-45-5P 144878-46-6P
144878-47-7P 144939-16-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 128440-94-8 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-2,3-dihydro-5-hydroxy-3-(4-hydroxy 3-methoxyphenyl)-6-methoxy-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

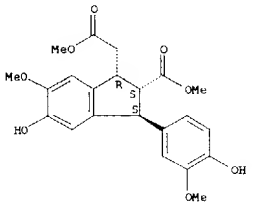
Relative stereochemistry.



RN 144878-42-2 CAPLUS
CN 1H-Indene-1-acetic acid, 2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-2-(methoxycarbonyl)-, methyl ester, (1α,2α,3β)- (9CI) (CA INDEX NAME)

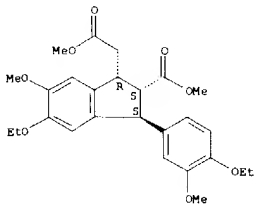
Relative stereochemistry.

L60 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 144878-43-3 CAPLUS
CN 1H-Indene-1-acetic acid, 5-ethoxy-3-(4-ethoxy-3-methoxyphenyl) 2,3-dihydro-6-methoxy-2-(methoxycarbonyl)-, methyl ester, (1α,2α,3β)- (9CI) (CA INDEX NAME)

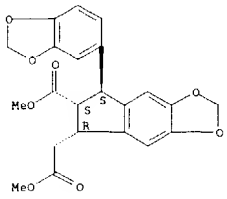
Relative stereochemistry.



RN 144878-44-4 CAPLUS
CN 5H-Indeno[5,6-d]-1,3-dioxole-5-acetic acid, 7-(1,3-benzodioxol-5-yl)-6,7-dihydro-6-(methoxycarbonyl)-, methyl ester, (5R,6S,7S)-rel- (9CI) (CA INDEX NAME)

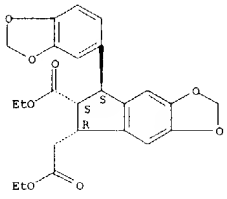
Relative stereochemistry.

L60 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 144878-45-5 CAPLUS
CN 5H-Indeno[5,6-d]-1,3-dioxole-5-acetic acid, 7-(1,3-benzodioxol-5-yl)-6-(ethoxycarbonyl)-6,7-dihydro-, ethyl ester, (5α,6α,7β)- (9CI) (CA INDEX NAME)

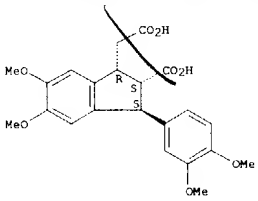
Relative stereochemistry.



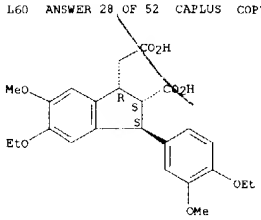
RN 144878-46-6 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-5-ethoxy-3-(4-ethoxy-3-methoxyphenyl)-2,3-dihydro-6-methoxy-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L60 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

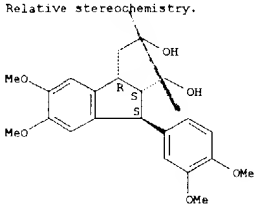


L60 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 144878-47-7 CAPLUS
CN 1H-Indene-1-ethanol, 3-(3,4-dimethoxyphenyl)-2,3-dihydro-2-(hydroxymethyl)-5,6-dimethoxy-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

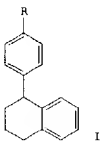
Relative stereochemistry.



RN 144939-16-2 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L60 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:163680 CAPLUS
DOCUMENT NUMBER: 114:163680
TITLE: A systematic study of benzyl cation initiated cyclization reactions
AUTHOR(S): Angle, Steven R.; Louie, Michael S.
CORPORATE SOURCE: Dep. Chem., Univ. California, Riverside, CA, 92521, USA
SOURCE: Journal of Organic Chemistry (1991), 56(8), 2853-66
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:163680
GI

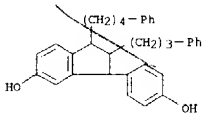


I

AB A systematic investigation of benzyl cation initiated cyclization reactions to form six-membered carbocycles is presented. The generation of benzyl cations from benzylic bromides, ethers, and alcs. followed by intramol. capture provided good yields of cyclized products by use of several different cyclization terminators (e.g., Ph, alkene, β-keto ester). A study on the effect of changing the electronic nature of substituents para to the benzyl cation showed that even electron-withdrawing substituents such as quaternary ammonium afford high yields of cyclization products. Thus, 4-RC6H4CHR1(CH2)3Ph (R = OH, MeO, Me3CMe2Si, H, Cl, OAc, CO2H, CO2Me, CF3, Me2N, cyano, NMe3+I-; R1 = MeOCH2CH2OCH2, MeO, HO, Br) were treated with TiCl3 in CH2Cl2 to give 12-98% the tetrahydronaphthalenes I. The formation of five- and seven-membered carbocycles was briefly investigated and found to be less general than the formation of the six-membered carbocycles.

IT **132777-35-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

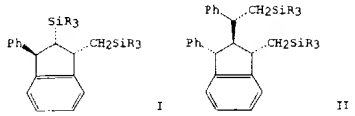
RN 132777-35-6 CAPLUS
CN 1H-Inden-5-ol, 2,3-dihydro-3-(4-hydroxyphenyl)-1-(4-phenylbutyl)-2-(3-phenylpropyl)- (9CI) (CA INDEX NAME)



L60 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L60 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:143528 CAPLUS
DOCUMENT NUMBER: 114:143528
TITLE: Diastereoselective addition of carbon electrophiles to styrylsilanes: the dimerization of β-(E)-(halosilyl)styrenes
AUTHOR(S): Brook, Michael A.; Sebastian, Thomas; Jueschke, Ralf; Dallaire, Carol
CORPORATE SOURCE: Dep. Chem., McMaster Univ., Hamilton, ON, L8S 4M1, Can.
SOURCE: Journal of Organic Chemistry (1991), 56(7), 2273-4
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:143528
GI



I II

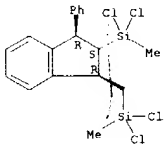
AB β-Silylstyrenes bearing silyl groups with poor leaving group ability (SiCl3, SiCl2Me) undergo addition reactions (dimerization and trimerization) with triflic acid catalysts leading to 1,2,3-trisubstituted-1H-dihydroindans, e.g., I, II (R = Cl), with high diastereoselectivity. The steric course of the reaction is highly dependent upon the electron withdrawing ability of the silyl group. The crystal structures of I and II (R = Me) were determined

IT **132514-91-1P 132514-92-2P 132514-93-3P**
132617-40-4P 132617-41-5P 132617-42-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 132514-91-1 CAPLUS
CN Silane, dichloro[[2-(dichloromethylsilyl)-2,3-dihydro-3-phenyl-1H-inden-1-yl]methyl]methyl-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

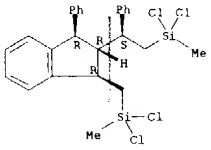
Relative stereochemistry.

L60 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



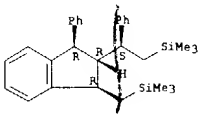
RN 132514-92-2 CAPLUS
CN Silane, dichloro[2-[1-[(dichloromethylsilyl)methyl]-2,3-dihydro-3-phenyl-1H-inden-2-yl]-2-phenylethyl]methyl-, [1α,2β(S*),3α]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 132514-93-3 CAPLUS
CN Silane, [[2,3-dihydro-3-phenyl-2-[1-phenyl-2-(trimethylsilyl)ethyl]-1H-inden-1-yl]methyl]trimethyl-, [1α,2β(S*),3α]- (9CI) (CA INDEX NAME)

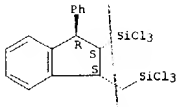
Relative stereochemistry.



RN 132617-40-4 CAPLUS
CN Silane, trichloro[[2,3-dihydro-3-phenyl-2-(trichlorosilyl)-1H-inden-1-yl]methyl]-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

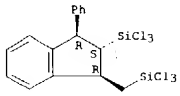
Relative stereochemistry.

L60 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



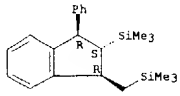
RN 132617-41-5 CAPLUS
CN Silane, trichloro[[2,3-dihydro-3-phenyl-2-(trichlorosilyl)-1H-inden-1-yl]methyl]-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 132617-42-6 CAPLUS
CN Silane, [[2,3-dihydro-3-phenyl-2-(trimethylsilyl)-1H-inden-1-yl]methyl]trimethyl-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

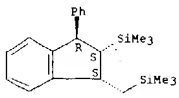
Relative stereochemistry.



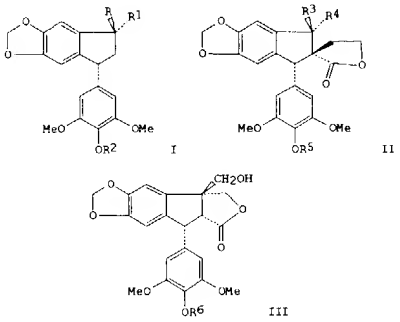
IT **132514-90-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, crystal and mol. structure of)

RN 132514-90-0 CAPLUS
CN Silane, [[2,3-dihydro-3-phenyl-2-(trimethylsilyl)-1H-inden-1-yl]methyl]trimethyl-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



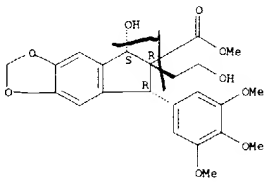
L60 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:142960 CAPLUS
DOCUMENT NUMBER: 114:142960
TITLE: Synthesis and antitumor activity of structural analogs of the epipodophyllotoxins
AUTHOR(S): Klein, Larry L.; Yeung, Clinton M.; Chu, Daniel T.; McDonald, Edith J.; Clement, Jacob J.; Plattner, Jacob J.
CORPORATE SOURCE: Anti-Infect. Div., Abbott Lab., Abbott Park, IL, 60064, USA
SOURCE: Journal of Medicinal Chemistry (1991), 34(3), 984-92
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:142960
GI



AB Several ring-contracted analogs of the antitumor agent etoposide, e.g., I (R = H, OH, OMe; R1 = H, OMe; R2 = H, Me) and II (R3, R4 = H, OH; R5 = H, Me), were prepared. Cis-fused lactone III (R6 = H, Me), which are isomeric with the etoposide aglycon, were synthesized via a dialkylation of the indene-2-carboxylate anion. Regiochem. and stereochem. results of these alkylations are described. The cytotoxicity of these derivs. toward several tumor cell lines is described and generally follows the structure-activity relationships known for podophyllotoxin. I (R = H, R1 = OH, R2 = H) was the most potent antitumor agent prepared
IT **132127-76-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

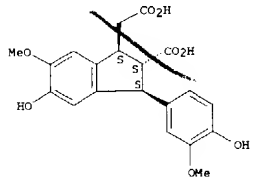
L60 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(prepn. and intramol. cyclocondensation of, furan and lactone from)
RN 132127-76-5 CAPLUS
CN 5H-Indeno[5,6-d]-1,3-dioxole-6-carboxylic acid, 6,7-dihydro-5-hydroxy-6-(2-hydroxyethyl)-7-(3,4,5-trimethoxyphenyl)-, methyl ester, (5α,6α,7α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

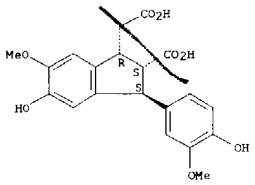


L60 ANSWER 32 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:474788 CAPLUS
DOCUMENT NUMBER: 113:74788
TITLE: Monomeric and dimeric phenolic constituents of plant cell walls - possible factors influencing wall biodegradability
AUTHOR(S): Eraso, Fatima; Hartley, Roy D.
CORPORATE SOURCE: Inst. Grassl. Anim. Prod., AFRC, Maidenhead/Berkshire, SL6 5LR, UK
SOURCE: Journal of the Science of Food and Agriculture (1990), 51(2), 163-70
CODEN: JSFAAE; ISSN: 0022-5142
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A range of plant cell walls from graminaceous and leguminous plants was examined qual. and quant. for monomeric and dimeric phenolic constituents that were released by treatment with NaOH. The total amts. of phenolics released from the walls of the graminaceous plants varied from 8 to 28 mg g-1 walls compared with <3 mg g-1 walls from the legumes. p-Coumaric and ferulic acids were the major components of the monomeric fraction. The cell walls also contained substituted cyclobutanes having mol. wts. equal to two p-coumaric acid mols., two ferulic acid mols. or one p-coumaric plus one ferulic acid mol. All the walls contained dehydrodiferulic acid. If it is assumed that the substituted cyclobutanes and dehydrodiferulic acid arise from dimerization of feruloyl and p-coumaroyl groups linked to cell wall polysaccharides, then, for the graminaceous walls, it is calculated
that between 5 and 14% of these groups had converted to dimers. This dimerization process may limit the biodegradability of the wall polysaccharides.
IT **128440-93-7 128440-94-8**
RL: BIOL (Biological study)
(of plant cell walls, biodegradability in relation to)
RN 128440-93-7 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L60 ANSWER 32 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Relative stereochemistry.



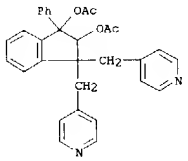
RN 128440-94-8 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

L60 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:553640 CAPLUS
DOCUMENT NUMBER: 111:153640
TITLE: Preparation and testing of alpha,alpha-disubstituted aromatics and heteroaromatics as cognition enhancers
INVENTOR(S): Earl, Richard Alan; Myers, Melvyn John; Nickolson, Victor Johannes
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Eur. Pat. Appl., 136 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 311010	A2	19890412	EP 1988-116393	19881004
EP 311010	A3	19910130		
EP 311010	B1	19940202		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5173489	A	19921222	US 1988-234382	19880823
CA 1339127	A1	19970729	CA 1988-578607	19880927
EP 532054	A1	19930317	EP 1992-115889	19881004
EP 532054	B1	19990609		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 101148	E	19940215	AT 1988-116393	19881004
ES 2061587	T3	19941216	ES 1988-116393	19881004
AT 181070	E	19990615	AT 1992-115889	19881004
ES 2137170	T3	19991216	ES 1992-115889	19881004
DK 8805568	A	19890407	DK 1988-5568	19881005
FI 8804582	A	19890407	FI 1988-4582	19881005
FI 93446	B	19941230		
FI 93446	C	19950410		
NO 8804433	A	19890407	NO 1988-4433	19881005
NO 174390	B	19940117		
NO 174390	C	19940427		
HU 48618	A2	19890628	HU 1988-5166	19881005
HU 206900	B	19920728		
JP 01207268	A2	19890821	JP 1988-250042	19881005
JP 2563522	B2	19961211		
SU 1750425	A3	19920723	SU 1988-4356717	19881005
IL 87929	A1	19930315	IL 1988-87929	19881005
AU 8823508	A1	19890406	AU 1988-23508	19881006
AU 628021	B2	19920910		
ZA 8807508	A	19900627	ZA 1988-7508	19881006
KR 9706101	B1	19970423	KR 1988-13031	19881006
US 5300642	A	19940405	US 1992-953274	19920930
US 5434264	A	19950718	US 1992-953273	19920930
NO 9301459	A	19890407	NO 1993-1459	19930421
NO 175057	C	19940824		
NO 175057	B	19940516		

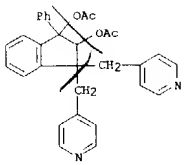
PRIORITY APPLN. INFO.: US 1987-105156 A 19871006
US 1988-234382 A 19880823
US 1986-850015 B2 19860410
US 1987-944953 A2 19870105

L60 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



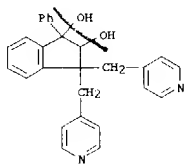
●2 HCl

RN 122955-73-1 CAPLUS
CN 1H-Indene-1,2-diol, 2,3-dihydro-1-phenyl-3,3-bis(4-pyridinylmethyl)-, diacetate (ester) (9CI) (CA INDEX NAME)



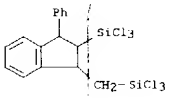
L60 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
EP 1988-116393 A 19881004
NO 1988-4433 A1 19881005

OTHER SOURCE(S): MARPAT 111:153640
GI For diagram(s), see printed CA Issue.
AB The title compds. [I; R1 = 2-, 3-, or 4-pyridyl, 2-, 4-, or 5-pyrimidinyl; R2 = R1, 2-pyrazinyl, 3- or 4-pyridazinyl, 3- or 4-pyrazolyl, 2- or 3-tetrahydrofuryl, 3-thienyl; XY = atoms to complete an (unsatd.) carbocyclic or heterocyclic ring which is fused to ≥1 addnl. (hetero)aromatic ring], useful as cognitive performance enhancers, were prepared N-Phenylindolin-2-one in C6H6 was treated with thallium ethoxide and the mixture was refluxed to give 85% of the thallium salt of N-phenylindolin-2-one. The latter was added to picolyl chloride in C6H6 and the mixture was refluxed overnight to give 3,3-bis(2-pyridylmethyl)-1-phenylindolin-2-one (II). II.HCl at 5 mg/kg s.c. in rats gave 54% enhancement of active avoidance performance.
IT **122955-72-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acetylation of, in preparation of cognitive performance enhancer)
RN 122955-72-0 CAPLUS
CN 1H-Indene-1,2-diol, 2,3-dihydro-1-phenyl-3,3-bis(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

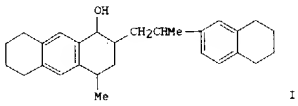


IT **122955-25-3P 122955-73-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as cognitive performance enhancer)
RN 122955-25-3 CAPLUS
CN 1H-Indene-1,2-diol, 2,3-dihydro-1-phenyl-3,3-bis(4-pyridinylmethyl)-, diacetate (ester), dihydrochloride (9CI) (CA INDEX NAME)

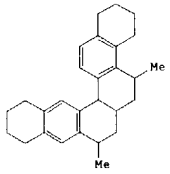
L60 ANSWER 34 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:534840 CAPLUS
DOCUMENT NUMBER: 111:134840
TITLE: Oligo(trichlorosilyl)styrenes: highly functionalized silicone precursors
AUTHOR(S): Brook, Michael A.; Huelser, Peter; Sebastian, Thomas
CORPORATE SOURCE: Dep. Chem., McMaster Univ., Hamilton, ON, L8S 4M1, Can.
SOURCE: Macromolecules (1989), 22(9), 3814-16
CODEN: MAMOBX; ISSN: 0024-9297
DOCUMENT TYPE: Journal
LANGUAGE: English
AB β-Trichlorosilylstyrenes undergo oligomerization processes in the presence of triflic acid. In contrast to β-trimethylsilylstyrenes which lose the silyl group under these strongly cationic conditions, the trichlorosilyl group is a sufficiently poor leaving group that it remains on the growing chain and, resulting from the β-stabilization of the carbonium ion at the growing chain end, is a controlling feature in both the propagation and termination steps.
IT **121987-99-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, catalyst for)
RN 121987-99-3 CAPLUS
CN Silane, trichloro[[2,3-dihydro-3-phenyl-2-(trichlorosilyl)-1H-inden-1-yl]methyl]- (9CI) (CA INDEX NAME)



L60 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:423195 CAPLUS
DOCUMENT NUMBER: 111:23195
TITLE: Polynuclear aromatic hydrocarbons. Part XXVI. Acid-catalyzed rearrangement through spirocyclic systems: synthesis of 5,8-dimethylphenanthro[1,2-a]anthracene
AUTHOR(S): Sharma, K. S.; Taneja, K. L.; Sarita; Mukherji, S. M.
CORPORATE SOURCE: Dep. Chem., M D Univ., Rohtak, 124 001, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1988), 27B(4), 327-9
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:23195
GI



I



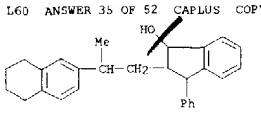
II

AB H2SO4-catalyzed cyclization of anthracene I obtained by Colonge-Mukherji cycloalkylation of tetralin with 2-allyl-4-methyl-1-oxo-1,2,3,4,5,6,7,8-octahydroanthracene, followed by Meerwein-Ponndorf-Verley reduction, affords phenanthroanthracene II, presumably through the acid-catalyzed rearrangement of the spirocyclic intermediate, instead of the desired anthra[1,2-a]anthracene. I on dehydrogenation gives the title compound

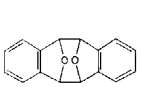
IT **120983-38-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, rearrangement in)

RN 120983-38-2 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-3-phenyl-2-[2-(5,6,7,8-tetrahydro-2-naphthalenyl)propyl]- (9CI) (CA INDEX NAME)

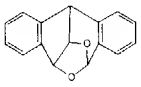
L60 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



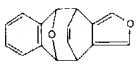
L60 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:89094 CAPLUS
DOCUMENT NUMBER: 98:89094
TITLE: Photodimers of isobenzofuran: a novel application of lanthanide induced shift spectroscopy to determine stereochemistry
AUTHOR(S): Warrener, Ronald N.; Pitt, Ian G.; Russell, Richard A.
CORPORATE SOURCE: Dep. Chem., Aust. Natl. Univ., Canberra, 2600, Australia
SOURCE: Journal of the Chemical Society, Chemical Communications (1982), (20), 1195-7
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 98:89094
GI



II



III



IV

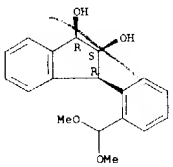
AB UV irradiation of isobenzofuran (I) in degassed Me2CO solution at -60° gave the [8 + 8] dimer II; lanthanide-shift NMR studies showed II has anti stereochem. Similar irradiation of I in degassed Et2O gave the unsym. dimer III and the [8 + 4] dimer IV; the structure of III was confirmed by unambiguous synthesis.

IT **84657-76-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and intramol. cyclocondensation reaction of)

RN 84657-76-1 CAPLUS
CN 1H-Indene-1,2-diol, 3-[2-(dimethoxymethyl)phenyl]-2,3-dihydro-, (1α,2α,3α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

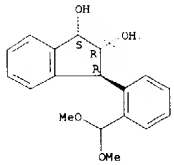
L60 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



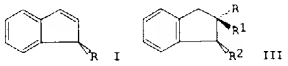
IT **84710-53-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 84710-53-2 CAPLUS
CN 1H-Indene-1,2-diol, 3-[2-(dimethoxymethyl)phenyl]-2,3-dihydro-, (1α,2α,3β)- (9CI) (CA INDEX NAME)

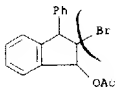
Relative stereochemistry.



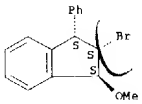
L60 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1982:198734 CAPLUS
DOCUMENT NUMBER: 96:198734
TITLE: Reaction of 1-substituted indenes with diborane or N-bromoacetamide in protic solvents. The effect of the substituent on the stereochemistry of addition
AUTHOR(S): Miura, Masahiro; Yoshida, Masaya; Nojima, Masatomo; Kusabayashi, Shigekazu
CORPORATE SOURCE: Dep. Appl. Chem., Osaka Univ., Osaka, 565, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (1), 79-83
CODEN: JCPRB4: ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB The reactions of 1-substituted indenes with diborane and with AcNHBr in protic solvents were studied to determine the effect of an increase of steric bulk of the substituent on the stereochem. course of the addition In the hydroboration reaction the proportion of products arising from attack of the diborane from the less hindered side increased as the steric bulk of the substituent at C-1 increased. E.g., reaction of I (R = Me) (II) with diborane at 20° for 15 min followed by oxidation with aqueous H2O2 and acetylation gave a 71:29 mixture of III (R = OAc, R1 = H; R = H, R1 = OAc; R2 = Me) whereas under the same conditions I (R = Ph) (IV) gave III (R = OAc, R1 = H, R2 = Ph) exclusively. The reaction with AcNHBr in aqueous dioxane followed by acetylation gave a mixture of 3-substituted 1-acetoxy-2-bromoindans with trans,trans and trans,cis configuration. III gave mainly trans,trans-1-acetoxy-2-bromo-3-phenylindan whereas with II the major product was trans,cis-1-acetoxy-2-bromo-3-methylindan.
IT **81707-16-6P 81707-19-9P 81707-31-5P**
81739-64-2P 81739-67-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 81707-16-6 CAPLUS
CN 1H-Inden-1-ol, 2-bromo-2,3-dihydro-3-phenyl-, acetate, (1α,2β,3α)- (9CI) (CA INDEX NAME)



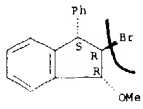
L60 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L60 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

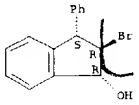
RN 81707-19-9 CAPLUS
CN 1H-Indene, 2-bromo-2,3-dihydro-1-methoxy-3-phenyl-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

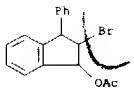


RN 81707-31-5 CAPLUS
CN 1H-Inden-1-ol, 2-bromo-2,3-dihydro-3-phenyl-, (1α,2β,3α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 81739-64-2 CAPLUS
CN 1H-Inden-1-ol, 2-bromo-2,3-dihydro-3-phenyl-, acetate, (1α,2β,3β)- (9CI) (CA INDEX NAME)



RN 81739-67-5 CAPLUS
CN 1H-Indene, 2-bromo-2,3-dihydro-1-methoxy-3-phenyl-, (1α,2β,3β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

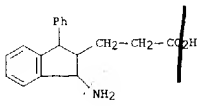
L60 ANSWER 38 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:97951 CAPLUS
DOCUMENT NUMBER: 82:97951
TITLE: Hypolipemic hydrogenated indeno[1,2-b]pyridin-2-ones and -thiones
INVENTOR(S): Kunstmann, Rudolf; Granzer, Ernold
PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.
SOURCE: Ger. Offen., 31 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2325581	A1	19741205	DE 1973-2325581	19730519
ES 426264	A1	19761216	ES 1974-426264	19740513
NL 7406457	A	19741121	NL 1974-6457	19740514
US 3980656	A	19760914	US 1974-470667	19740516
ZA 7403148	A	19750528	ZA 1974-3148	19740517
AU 7469088	A1	19751120	AU 1974-69088	19740517
GB 1470339	A	19770414	GB 1974-22186	19740517
AT 7404107	A	19770415	AT 1974-4107	19740517
AT 340421	B	19771212		
CH 605786	A	19781013	CH 1974-6825	19740517
CH 605789	A	19781013	CH 1977-13801	19740517
CH 605788	A	19781013	CH 1977-13800	19740517
DK 139428	B	19790219	DK 1974-2714	19740517
DK 139428	C	19790730		
SE 407938	B	19790430	SE 1974-6595	19740517
JP 50030889	A2	19750327	JP 1974-55028	19740518
BE 815278	A1	19741120	BE 1974-144524	19740520
FR 2229420	A1	19741213	FR 1974-17495	19740520
AT 7609584	A	19770415	AT 1976-9584	19761223
AT 340423	B	19771212		
AT 7609585	A	19770415	AT 1976-9585	19761223
AT 340424	B	19771212		
SE 7701261	A	19770204	SE 1977-1261	19770204

PRIORITY APPLN. INFO.: DE 1973-2325581 19730519
AT 1974-4107 19740517

GI For diagram(s), see printed CA Issue.
AB About 20 indenopyridines I [X = O or S; R1 = H, 7-Cl, 7-MeO, or 7,8-(MeO)2; R1 = Ph, 4-ClC6H4, 4-O2NC6H4, 4-MeOC6H4, or 4-pyridyl], their 2,3,4,4a,5,9b-hexahydro-1H analogs (II), or their hydrochlorides, e.g. 2,3,4,4a,5,9b-hexahydro-5-phenyl-1H-indeno[1,2-b]pyridin-2-one (III), were prepared I and II had anticholesteremic and hypolipemic activity when tested orally in the rat. Thus, PhCO(CH2)3CN or 3,4-dihydro-6-phenyl-2-pyridinone and 4-ClC6H4CHO were treated with 85% H3PO4 and P2O5 at 80° to give I (X = O; Rn = H; R1 = 4-ClC6H4). The pyridone IV was heated in 85% H3PO4 and P2O5 at 80° to give I (X = O; Rn = H; R1 = Ph), which on hydrogenation over Raney-Ni or treatment with P2S5 in pyridine gave III or I (X = S; Rn = H; R1 = Ph), resp.
IT **54959-89-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 54959-89-6 CAPLUS
CN 1H-Indene-2-propanoic acid, 1-amino-2,3-dihydro-3-phenyl- (9CI) (CA INDEX NAME)

L60 ANSWER 38 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L60 ANSWER 39 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN

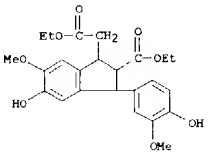
ACCESSION NUMBER: 1975:15802 CAPLUS
DOCUMENT NUMBER: 82:15802
TITLE: Carbon-13 NMR spectra of lignins. 1. Chemical shifts of monomeric and dimeric model substances
AUTHOR(S): Luedemann, Hans D.; Nimz, Horst
CORPORATE SOURCE: Fachbereich Biol., Univ. Regensburg, Regensburg, Fed. Rep. Ger.
SOURCE: Makromolekulare Chemie (1974), 175(8), 2393-407
CODEN: MACEAK; ISSN: 0025-116X
DOCUMENT TYPE: Journal
LANGUAGE: German

GI For diagram(s), see printed CA Issue.

AB The 13C chemical shifts of 14 monomeric, e.g., I (R1 = H, R = CHO; R1 = OH, R = CO2H) and 25 dimeric, e.g., II, lignin model benzene derivs. were determined The influence of the MeO group, ortho to the phenolic OH or OR group, on the chemical shifts of the aromatic C atoms was examined These compds. were used for the assignment of the 13C NMR of angio- and gymnosperm lignins.

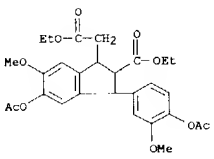
IT **53669-39-9 53669-40-2 53669-41-3**
RL: PRP (Properties)
(carbon-13 NMR of)

RN 53669-39-9 CAPLUS
CN 1H-Indene-1-acetic acid, 2-(ethoxycarbonyl)-2,3-dihydro-5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-6-methoxy-, ethyl ester (9CI) (CA INDEX NAME)

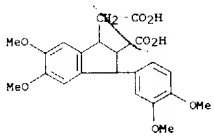


RN 53669-40-2 CAPLUS
CN 1H-Indene-1-acetic acid, 5-(acetyloxy)-3-[4-(acetyloxy)-3-methoxyphenyl]-2-(ethoxycarbonyl)-2,3-dihydro-6-methoxy-, ethyl ester (9CI) (CA INDEX NAME)

L60 ANSWER 39 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 53669-41-3 CAPLUS
CN 1H-Indene-1-acetic acid, 2-carboxy-3-(3,4-dimethoxyphenyl)-2,3-dihydro-5,6-dimethoxy- (9CI) (CA INDEX NAME)



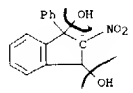
L60 ANSWER 40 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1972:501273 CAPLUS
DOCUMENT NUMBER: 77:101273
TITLE: Synthesis and transformations of 2-nitro 1-phenyl-1-hydroxyindene and its isomer
AUTHOR(S): Schneider, J.; Evans, E. L.; Fryer, R. Ian
CORPORATE SOURCE: Hoffman-La Roche, Inc., Nutley, NJ, USA
SOURCE: Journal of Organic Chemistry (1972), 37(16), 2604-8
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Condensation of 2-benzoylbenzaldehyde with MeNO2 in the presence of NaOMe gave, after acidification, 2-nitro-1-phenyl-1-hydroxyindene, 2-nitro-3-phenyl-1-hydroxyindene, and 2-nitro-1-phenyl-1,3-dihydroxyindan. The first 2 compds. were converted to the corresponding acetates (I) and (II) which on treatment with primary or secondary amines gave the nitroenamines (III) and the ammonium salts (IV) of 2-nitro-1-phenyl-3-indanone (V), resp. Hydrolysis of III or IV afforded V. Treatment of the acetate I with alcs. yielded 2-nitro-3-phenyl-1-alkoxyindene (VI). After prolonged reflux the isomeric 2-nitro-1-phenyl-3-alkoxyindene (VII) was obtained. A catalytic amount of Et3N rearranges VI to VII.

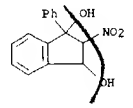
IT **34764-52-8P 34764-55-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 34764-52-8 CAPLUS
CN 1H-Indene-1,3-diol, 2,3-dihydro-2-nitro-1-phenyl-, ion(1-), sodium (9CI) (CA INDEX NAME)



● Na^+

RN 34764-55-1 CAPLUS
CN 1H-Indene-1,3-diol, 2,3-dihydro-2-nitro-1-phenyl- (9CI) (CA INDEX NAME)

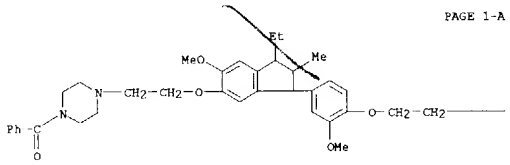


L60 ANSWER 41 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1971:405559 CAPLUS
DOCUMENT NUMBER: 75:5559
TITLE: Pharmaceutical diisoeugenol derivatives
PATENT ASSIGNEE(S): Egyesult Gyogyszer es Tapszergyar
SOURCE: Fr. M., 3 pp.
CODEN: FMXXAJ
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

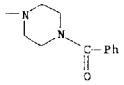
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 7067		19690804		
DE 1643957			DE	
US 3637853		19720000	US	
PRIORITY APPLN. INFO.:			HU	19661126

GI For diagram(s), see printed CA Issue.
AB Diisoeugenol derivs. I (R = aminoalkyl) were prepared from I (R = H). Thus, I (R = H) and Et2NCH2CH2Cl in alkaline aqueous iso-PrOH was distilled to yield I (R = Et2NCH2CH2). An addnl. 3 examples are given. The compds. exhibit hypertensive action as well as spontaneous spasmolytic activity.
IT **32228-02-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32228-02-7 CAPLUS
CN Piperazine, 1-benzoyl-4-[2-[4-[6-[2-(4-benzoyl-1-piperazinyl)ethoxy]-3-ethyl-5-methoxy-2-methyl-1-indanyl]-2-methoxyphenoxy]ethyl]-, dihydrochloride (8CI) (CA INDEX NAME)

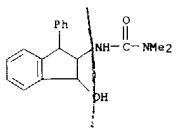
PAGE 1-A



●2 HCl



L60 ANSWER 42 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1970:435300 CAPLUS
DOCUMENT NUMBER: 73:35300
TITLE: Synthesis and screening for antidepressant activity of some aminoindanooxazolines, aminoindanooxazines, and aminoacenaphthoxazolines
AUTHOR(S): Trepanier, Donald L.; Faith, H. Eldridge; Eble, John N.
CORPORATE SOURCE: Chem. Res. and Pharmacol. Dep., Dow Chem. Co., Zionsville, IN, USA
SOURCE: Journal of Medicinal Chemistry (1970), 13(4), 729 33
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Some aminoindanooxazolines, aminoindanooxazines, and aminoacenaphthoxazolines with spatial orientations similar to those of the tricyclic drugs were synthesized and tested for potential antidepressant activity. None were able to prevent reserpine ptosis. Some potentiated d-amphetamine toxicity and prolonged hexobarbital sleep time in mice.
IT **27271-40-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 27271-40-5 CAPLUS
CN Urea, 3-(1-hydroxy-3-phenyl-2-indanyl)-1,1-dimethyl- (8CI) (CA INDEX NAME)



L60 ANSWER 43 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1968:486698 CAPLUS
DOCUMENT NUMBER: 69:86698
TITLE: O,O-Disubstituted diisoeugenol derivatives
INVENTOR(S): Korosi, Jeno; Lang, Tibor; Pataky, Istvan
PATENT ASSIGNEE(S): Egyesult Gyogyszer es Tapszergyar
SOURCE: Hung., 8 pp.
CODEN: HUXXAT
DOCUMENT TYPE: Patent
LANGUAGE: Hungarian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 154664		19680430	HU	19661126
GB 1199040			GB	

AB A mixture of 0.05 mole diisoeugenol (I), 0.205 mole K2CO3 in 50 ml. H2O, 0.104 mole Et2NCH2CH2Cl.-HCl, and 300 ml. iso-PrOH was concentrated to dryness on a water bath in 2 hrs., the residue was dissolved in a mixture of 150 ml. C6H6 and 50 ml. H2O, the organic phase was extracted with a mixture of 75 ml. H2O and 10 ml. AcOH, the aqueous phase was treated with NH4OH, and the oily product dissolved in C6H6 and treated with HCl gas to deposit 27.3 g. O,O'-bis[β-(diethylamino)ethyl]-diisoeugenol-2 HCl, m. 168-70°. Similarly, 2.05 moles Me2N-CH2CH2CH2Cl was added dropwise with stirring to a mixture of 1 mole I, 2.05 mole KOH, and 2 l. EtOH at reflux in 3 hrs., the mixture was refluxed for a further 30 min., cooled, and filtered, the KCl washed with EtOH, and the combined filtrate and washings were worked up to yield 496 g. O,O'-bis[γ-dimethylamino)propyl] diisoeugenol base, m. 111-13° (petroleum ether), hydrochloride m. 214.5-16.0 (iso-PrOH); maleate m. 158-60° (EtOH-Me2CO); and tartrate m. 178-81° (EtOH-Me2CO). O,O'-Bis(γ-piperidinopropyl)diisoeugenol-2HCl, m. 212-14° and O,O'-bis[β-(4-benzoyl-1-piperazinyl)ethyl]diisoeugenol-2HCl, m. 192°, were similarly prepared
IT **20004-77-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 20004-77-7 CAPLUS
CN Piperazine, 1-benzoyl-4-[2-[4-[6-[2-(4-benzoyl-1-piperazinyl)ethoxy]-3-ethyl-5-methoxy-2-methyl-1-indanyl]-2-methoxyphenoxy]ethyl]-, dihydrochloride (8CI) (CA INDEX NAME)

L60 ANSWER 43 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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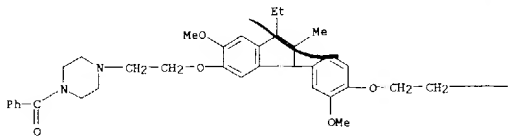
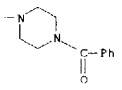


●2 HCl

PAGE 1-B



L60 ANSWER 44 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1966:499143 CAPLUS
DOCUMENT NUMBER: 65:99143
ORIGINAL REFERENCE NO.: 65:18525f-h
TITLE: Dimerization of β-halostyrenes
INVENTOR(S): Venrooy, John J. Van
PATENT ASSIGNEE(S): Sun Oil Co.
SOURCE: 3 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

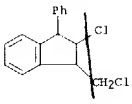
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3270068		19660830	US	19631108

AB β-Chlorostyrene (I) and β-bromostyrene (II) were dimerized with a BF3.H3PO4 coordination compound catalyst to produce substituted indans, resp., 1-chloromethyl-2-chloro-3-phenylindan (III) and 1-bromomethyl-2-bromo-3-phenylindan (IV). Thus, to 25 g. I (approx. equal parts cis and trans) was added with stirring 7 ml. BF3.H3PO4 complex (prepared by bubbling BF3 at room temperature into 100% H3PO4; complex is a sirupy clear liquid solidifying about -105°) during 1 hr. The temperature rose to 65-70° and was kept there 2 hrs. first by cooling, then by heating. The taffy-like mixture was dissolved in 250 ml. Et2O and the solution washed with 10% aqueous NaHCO3 to remove catalyst, dried, concentrated, and the residue distilled to give III, b0.6 154-62°, as the major product (89%), plus a small amount (8%) of trimer, b0.6 162-8°. Similarly, 38.7 g. II and 10.5 g. BF3.H3PO4 gave IV, b1.8 193-5°, as a viscous red liquid that crystallized on standing. Recrystn. from CCl4 gave paleorange IV, m. 76-8°. III could also be crystallized. When dimerization of I was tried with other catalysts, no reaction occurred with BF3.Et2O, ZnCl2, or FeCl3; with AlCl3 a violent reaction yielded a brown tar; with concentrated H2SO4 dimerization was accompanied by side reactions, presumably including sulfonation of the aromatic rings. III and IV can be used as plasticizers for poly(vinyl chloride) and other resins and as intermediates for preparing flame retardants. Thus, III in CCl4 was refluxed 6 hrs. in contact with Cl gas and the mixture concentrated to a gum containing 40% Cl by weight (about 2 Cl atoms added per mol.). This product was useful as a flame retardant for resins. Similarly, chlorination of IV gave a product containing 54% total halogens (about 4 Cl atoms added per mol.), in which chlorination had occurred at both aromatic and nonaromatic C positions.

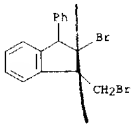
IT **10436-98-3**, Indan, 2-chloro-1-(chloromethyl)-3-phenyl-
10436-99-4, Indan, 2-bromo-1-(bromomethyl)-3-phenyl-
(preparation of)

RN 10436-98-3 CAPLUS
CN 1H-Indene, 2-chloro-1-(chloromethyl)-2,3-dihydro-3-phenyl- (9CI) (CA INDEX NAME)

L60 ANSWER 44 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 10436-99-4 CAPLUS
CN Indan, 2-bromo-1-(bromomethyl)-3-phenyl- (7CI, 8CI) (CA INDEX NAME)



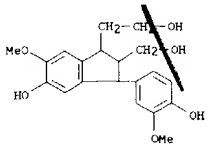
L60 ANSWER 45 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1964:67940 CAPLUS
DOCUMENT NUMBER: 60:67940
ORIGINAL REFERENCE NO.: 60:11924c-h
TITLE: Polymerization of coniferyl alcohol by acid
AUTHOR(S): Freudenberg, Karl; Maercker, Gudrun; Nimz, Horst
CORPORATE SOURCE: Univ. Heidelberg, Germany
SOURCE: Ber. (1964), 97(3), 903-8
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.

AB Coniferyl alc. (I), as well as PhCH:CHCH2OH, is linearly dimerized by acid with the formation of II. The reaction is terminated by an allyl rearrangement with the formation of III (R = H) (IV). The trimeric V (R = H) (VI) showed the same chain termination and an ether bond between the 1st and 2nd member; an ether-like dimer (VII), which is being built up to the trimeric VI, was postulated as an intermediate. p-Hydroxybenzyl alcs. are formed by the chain termination; these participate in the further synthesis by polycondensation with the formation of the final, insol. products. The dimeric coniferyl alc. VIII (R = CH2OH) (IX) was synthesized. I (5 g.) in 5 l. H2O saturated with CO2, adjusted with about 1.5 cc. concentrated HCl to pH 2.5-3, and kept 4 days at 20° yielded a crude polymer; an 8-g. portion chromatographed on Perlon yielded 10% unreacted I, 9% impure IV, and 20% impure VI. IV (800 mg.) in 25 cc. HCONMe2 stirred 20 hrs. at 20° with 1 g. 2,4-(O2N)2C6H3F and 0.7 g. NaHCO3 yielded 0.87 g. bis[2,4-(O2N)2C6H3] ether (X). X in 1:1 Ac2O-C5H5N kept 20 hrs. at room temperature gave the amorphous diacetate of X. Crude polymer (5 g.) in 15 cc. 1:1 Ac2O-C5H5N kept overnight at 20° yielded 6 g. tetraacetate of IV. VI (0.5 g.), 1.05 g. 2,4-(O2N)2C6H3F, 0.7 g. NaHCO3, 8 cc. C6H6, and 2 cc. Me2CO stirred 8 hrs. at room temperature gave the tris[2,4-(O2N)2C6H3] ether (XI) of VI, which was converted into the triacetate. VI (100 mg.), 12 cc. C5H5N, and 280 mg. p-PhN:NC6H4COCl kept 48 hrs. at 20° yielded the amorphous tetrakis(p-phenylazobenzoate) of VI. VI (300 mg.) in 20 cc. MeOH kept 40 hrs. at 20° with 40 mg. p-MeC6H4SO3H.H2O, and the product treated with Ac2O-C5H5N yielded the triacetate of V (R = Me). VI (600 mg.) in 80 cc. AcOEt ozonized 7 hrs., and treated with 3 g. Zn dust and 1.5 g. AcOH yielded CH2O isolated as the dimedon derivative, m. 191°. Crude polymer from 1 ozonized, methylated, and oxidized with H2O2 gave only (CO2Et)2. VIII (R = CO2Et)2 reduced with LiAlH4 in Et2O yielded 140 mg. IX, m. 179-80°.

IT **94686-96-1**, 1-Indanethanol, 5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-2-(hydroxymethyl)-6-methoxy-
(preparation of)

RN 94686-96-1 CAPLUS
CN 1-Indanethanol, 5-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-2-(hydroxymethyl)-6-methoxy- (7CI) (CA INDEX NAME)



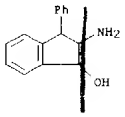
L60 ANSWER 45 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L60 ANSWER 46 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1959:11752 CAPLUS
DOCUMENT NUMBER: 53:11752
ORIGINAL REFERENCE NO.: 53:2191c-d
TITLE: Derivatives of 2-aminoindan
INVENTOR(S): Richter, Helmer; Schenck, Martin
PATENT ASSIGNEE(S): Schering Akt.-Ges.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 937953		19560119	DE	

AB Concentrated solns. of 2-isonitroso-3-indanones are smoothly hydrogenated with Raney Ni in neutral or alkaline media to give the 2-amino-3-indanols. Thus, 1.2 g. 1-phenyl-2-isonitroso-3-indanone was dissolved in 5 ml. NaOH-MeOH (from 5 g. NaOH, 5 ml. H2O, and 90 ml. MeOH) and 5 ml. MeOH, hydrogenated at room temperature and normal pressure in the presence of Raney Ni, the mixture treated with water, and 1-phenyl-2-amino-3-indanol filtered off, m. 162-4° (dioxane); 1-phenyl-1-methyl-2-amino-3-indanol, which was sterically different from the isomer prepared in Ger. 936,507 (cf. above), was also prepared (HCl salt, m. 120°, after previous sintering, m. 101°). Cf. C.A. 51, 16554d; 52, 14693g.

IT **101089-55-8**, 1-Indanol, 2-amino-3-phenyl-
(preparation of)
RN 101089-55-8 CAPLUS
CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-3-phenyl- (9CI) (CA INDEX NAME)



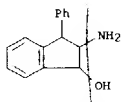
L60 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1959:11750 CAPLUS
DOCUMENT NUMBER: 53:11750
ORIGINAL REFERENCE NO.: 53:2190f-i,2191a
TITLE: Derivatives of 2-aminoindan
INVENTOR(S): Richter, Helmer; Schenck, Martin
PATENT ASSIGNEE(S): Schering Akt.-Ges.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 936507		19551215	DE	
US 2982783		1961	US	

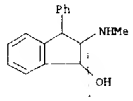
AB 1-Phenyl-3-indanones, which may carry an addnl. alkyl at C-1, are converted to the substituted 2-aminoindans, which carry an oxo or a hydroxy group at C-3, by conventional methods. The products stimulate the central nerve system, but show no sympathicomimetic action; they combine low toxicity with good resorption. Thus, 20.8 g. 1-phenyl-3-indanone was dissolved in 200 ml. Et2O and 150 ml. C6H6, 10.8 g. BuNO2 added dropwise with stirring while HCl gas was bubbled through the solution precipitating the isonitroso ketone (I), 100 ml. C6H6 added to the mixture which was cooled, and filtered to give 20 g. I, m. 211-12° (decomposition). I (11.8 g.) in 100 ml. MeOH containing 5.5 g. HCl was hydrogenated at normal pressure and 20° with 3 g. Pd-C 2 hrs., filtered, concentrated in vacuo in an N atmospheric, and treated with Et2O to precipitate 1-phenyl-2-amino-3-indanone-HCl (II), m. 274-80°. II (8.3 g.) was dissolved in EtOH, hydrogenated with Pd-C and a PdCl2 solution containing 0.5 g. PdCl2 at 20° and normal pressure 2 hrs., filtered, evaporated, dissolved in water, cooled, and treated with NH4OH to give 1-phenyl-2-amino-3-indanol (III), m. 189-91° (dioxane, which is retained in the crystals); III bitartrate, m. 187-9° (decomposition); neutral sulfate, m. 219-21° (decomposition). III (4.4 g.), 5.1 g. 90% HCO2H, and 3.6 g. 37% HCHO was heated 4-5 hrs. on a steam-bath; when less gas was evolved, a clear, light yellow liquid formed; 2 g. concentrated HCl was added and the mixture evaporated in vacuo, dissolved in water, treated with NH4OH, and extracted with warm CHCl3. After separation the base was triturated with petr. ether, filtered off, and converted to 1-phenyl-2-dimethylamino-3-indanol-HCl, m. 194-6°. Also prepared were: 1-phenyl-2-benzylamino-3-indanol, m. 155-6° (MeOH); 1-phenyl-2-(benzylmethylamino)-3-indanol-HCl, m. 224-5° (decomposition), the benzyl group of which was hydrogenolyzed to give 1-phenyl-2-methylamino-3-indanol-HCl.0.5H2O, m. 150-2° (free base, m. 165-7°); 1-phenyl-2-piperidino-3-indanol-HCl, m. 247-8°; 1-phenyl-1-methyl-2-isonitroso-3-indanone, m. 196-8°; 1-phenyl-1-methyl-2-amino-3-indanol-HCl, m. 222-4°; 1-phenyl-5-methyl-2-isonitroso-3-indanone, m. 211-12° (decomposition); and 1-phenyl-5-methyl-2-amino-3-indanol-HCl, m. 232°.

IT **101089-55-8**, 1-Indanol, 2-amino-3-phenyl-
(and salts)
RN 101089-55-8 CAPLUS
CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-3-phenyl- (9CI) (CA INDEX NAME)

L60 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

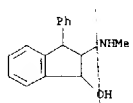


IT **101292-79-9**, 1-Indanol, 2-methylamino-3-phenyl-, hydrochloride
101292-80-2, 1-Indanol, 2-methylamino-3-phenyl-
101583-86-2, 1-Indanol, 2-dimethylamino-3-phenyl-, hydrochloride
102560-66-7, 1-Indanol, 2-(benzylmethylamino)-3-phenyl-, hydrochloride **110332-78-0**, 1-Indanol, 2-benzylamino-3-phenyl-
(preparation of)
RN 101292-79-9 CAPLUS
CN 1-Indanol, 2-methylamino-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)

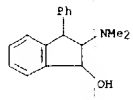


● HCl

RN 101292-80-2 CAPLUS
CN 1-Indanol, 2-methylamino-3-phenyl- (6CI) (CA INDEX NAME)



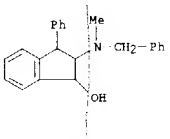
RN 101583-86-2 CAPLUS
CN 1-Indanol, 2-dimethylamino-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

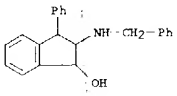
L60 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 102560-66-7 CAPLUS
CN 1-Indanol, 2-(benzylmethylamino)-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)

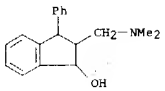


● HCl

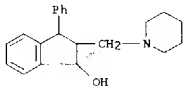
RN 110332-78-0 CAPLUS
CN 1-Indanol, 2-benzylamino-3-phenyl- (6CI) (CA INDEX NAME)



L60 ANSWER 48 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl- (6CI) (CA INDEX NAME)

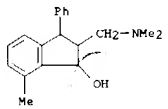


RN 102596-86-1 CAPLUS
CN 1-Indanol, 3-phenyl-2-piperidinomethyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

RN 109805-65-4 CAPLUS
CN 1-Indanol, 2-(dimethylaminomethyl)-7-methyl-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)

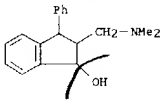


● HCl

L60 ANSWER 48 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1958:104380 CAPLUS
DOCUMENT NUMBER: 52:104380
ORIGINAL REFERENCE NO.: 52:18469d-f
TITLE: 1-Substituted 2 aminomethyl-3-indanols
INVENTOR(S): Richter, Helmer; Schenck, Martin
PATENT ASSIGNEE(S): A.-G., Schering
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 946800		19560809	DE	

AB A solution of 3 g. 1-phenyl-2-dimethylaminomethyl-3-indanone hydrochloride in 100 cc. MeOH and 3 cc. concentrated HCl was hydrogenated 3 hrs. with H in the presence of Pd-C under normal conditions, the catalyst filtered off, the filtrate concentrated in vacuo under N, the residue taken up in H2O, the solution filtered over C, NaHCO3 added, the solution extracted with CHCl3, the extract dried over K2CO3, the solvent evaporated, and the crude base recrystd. (MeOH-H2O) to give 1-phenyl-2-dimethylamino-methyl-3-indanol, m. 110-12°; hydrochloride, m. 235-5.5°. Similarly were prepared the following substituted 2-methyl-3-indanol hydrochlorides (substituent and m.p. given):1-methyl-2-piperidino, 221.5°; 1-phenyl-2-piperidino, 202.5-5.0°; 1-phenyl-2-dimethylamino-5-methyl, 238-41°; and 1,1-dimethyl-2-dimethylamino, 266-8° (decomposition). The compds. thus prepared exhibit analeptic properties.
IT **101717-79-7**, 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride **101717-80-0**, 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl- **102596-86-1**, 1-Indanol, 3-phenyl-2-piperidinomethyl-, hydrochloride **109805-65-4**, 1-Indanol, 2-(dimethylaminomethyl)-7-methyl-3-phenyl-, hydrochloride
(preparation of)
RN 101717-79-7 CAPLUS
CN 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



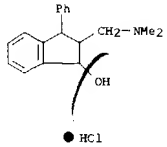
● HCl

RN 101717-80-0 CAPLUS

L60 ANSWER 49 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1958:6781 CAPLUS
DOCUMENT NUMBER: 52:6781
ORIGINAL REFERENCE NO.: 52:1258i,1259a
TITLE: Substituted 2-aminomethylindanols
PATENT ASSIGNEE(S): Schering A.-G.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 777070		19570619	GB	

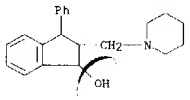
AB Condensing a 1-arylindanone with HCHO and Me2NH.HCl and reducing with Pd gives 1-aryl-2-dimethylaminomethyl-3-indanone-HCl. Thus, running a Mannich reaction with 1-phenyl-3-indanone, HCHO, and Me2NH.HCl, hydrogenating with Pd-C in 100 ml. MeOH containing 3 ml. HCl, stopping after 1 mole H is absorbed, filtering, evaporating the filtrate in vacuo in an N atmospheric, dissolving the residue in H2O, filtering over C, liberating the base with NaHCO3 solution, extracting with CHCl3, drying over anhydrous K2CO3, and evaporating the CHCl3 gave 1-phenyl-2-dimethylaminomethyl-3-indanone, m. 110-12° (MeOH-H2O); HCl salt, m. 235-5.5°. Similarly, the following substituted 3-indanone-HCl were prepared (substituents and m.p. given): 1-Me, 2-(piperidinomethyl), 219-21.5°; 1-Ph, 2-(piperidinomethyl), 202.5-5°; 1-Ph, 2-Me2NCH2, 238-41°; 1,1-Me2, 2-Me2NCH2, 266-8° (decomposition).
IT **101717-79-7**, 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride **102596-86-1**, 1-Indanol, 3-phenyl-2-piperidinomethyl-, hydrochloride **109808-75-5**, 1-Indanol, 2-(dimethylaminomethyl)-6-methyl-3-phenyl-, hydrochloride
(preparation of)
RN 101717-79-7 CAPLUS
CN 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

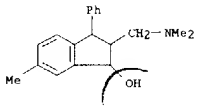
RN 102596-86-1 CAPLUS
CN 1-Indanol, 3-phenyl-2-piperidinomethyl-, hydrochloride (6CI) (CA INDEX NAME)

L60 ANSWER 49 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● HCl

RN 109808-75-5 CAPLUS
CN 1-Indanol, 2-(dimethylaminomethyl)-6-methyl-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

L60 ANSWER 50 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1957:91048 CAPLUS
DOCUMENT NUMBER: 51:91048
ORIGINAL REFERENCE NO.: 51:16554c-h
TITLE: 2-(Aminomethyl)indan compounds
INVENTOR(S): Richter, Helmer; Schenck, Martin
PATENT ASSIGNEE(S): Schering A.-G.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

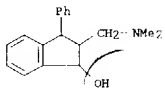
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2794048		19570528	US	

AB The preparation of 1-phenyl-2-dimethylaminomethyl-2-indene, 1-phenyl-2-dimethylaminomethyl-3-indanol, and 1-phenyl-2-(dimethylaminomethyl)indan is reported. These compds. show an analeptic action without any side reactions on the sympathetic nervous system. 1-Phenyl-2-(dimethyl-aminomethyl)-3-indanone-HCl (I) (3 g.) produced from 1-phenyl-3-indanone by a Mannich reaction with CH2O and Me2NH.HCl is hydrogenated in 100 ml. MeOH with the addition of 3 ml. concentrated HCl using Pd-C as catalyst. H (1 mole) is absorbed in 3 hrs. After removal of the catalyst, the filtrate is concentrated in vacuum under N atmospheric The residue is taken up in H2O and filtered over carbon. The filtrate is basified with NaHCO3 solution and extracted with CHCl3. Removal of CHCl3 after drying over KOH gave the crude base. Recrystn. from MeOH-H2O afforded the pure base 1-phenyl-2-dimethylaminomethyl-3-indanol (II), m. 110-12°; HCl salt, m. 235.5°. II.HCl (1.2 g.) mixed with 12 ml. glacial AcOH and 4 ml. concentrated HCl is refluxed 30 min., the mixture evaporated in vacuo under N, and the residue in H2O filtered over C. The base is liberated with NaHCO3 solution and extracted with ether. The ether extract dried over KOH and treated with ethereal HCl gave 1-phenyl-2-dimethylaminomethyl-2-indene-HCl (III), precipitated from MeOH-ether, m. 160-2°. I (12 g.) in 180 ml. glacial AcOH and 10 g. of 85% H2SO4 is hydrogenated under normal pressure at 60° with Pd-C as catalyst. The hydrogenation is stopped after 2 moles H are taken up. Working up the product as before gave 1-phenyl-2-dimethylaminomethylindan-HCl (IV), m. 175°. II.HCl (6.1 g.) in 30 ml. glacial AcOH and 5 ml. H2SO4 is hydrogenated under normal pressure at 60° with Pd black as catalyst. H (1 mole) is adsorbed in 2 hrs. after which the catalyst is filtered off and the H2SO4 neutralized with KOH under cooling. Isolating the product as before gave IV. III (5 g.) in MeOH is hydrogenated at room temperature and atmospheric pressure with Pd black as catalyst. After the H absorption is ended, filtration of the catalyst and isolation of the product as usual gave IV, m. 173-4°. III can also be reduced to IV under identical conditions with Raney Ni as catalyst.

IT **101717-79-7**, 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride **101717-80-0**, 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-

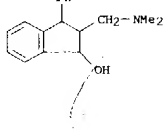
L60 ANSWER 50 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(prepn. of)

RN 101717-79-7 CAPLUS
CN 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

RN 101717-80-0 CAPLUS
CN 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl- (6CI) (CA INDEX NAME)



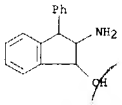
L60 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1957:47212 CAPLUS
DOCUMENT NUMBER: 51:47212
ORIGINAL REFERENCE NO.: 51:8791h-i,8792a-e
TITLE: 2-Aminoindans
PATENT ASSIGNEE(S): Schering A.-G.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 752949		19560718	GB	

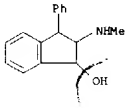
AB 1-Phenyl-3-indanone (20.8 g.) in Et2O and C6H6 treated with HCl gas and 10.8 g. BuNO2 added yielded 20 g. crude 1-phenyl-2-isonitroso-3-indanone (I), m. 211-12° (decomposition) (from MeOH). I reduced with Pd-C activated by PdCl2 gave 1-phenyl-2-amino-3-indanol (II) without isolation of the amino ketone (III). I (11.8 g.) in MeOH containing 5.5 g. HCl and 3 g. Pd-C hydrogenated 2 hrs. at room temperature gave III.HCl, m. 274-80° (precipitated by addition of Et2O). III.HCl (8.3 g.) in alc. hydrogenated with Pd-C containing 0.5 g. PdCl2 and the base precipitated from solution with NH3 yielded II, m. 189-91° (from dioxane); bitartrate, m. 187-9°; neutral sulfate, m. 219-21° (decomposition); HCl salt, strongly hygroscopic. II (4.4 g.) heated 4-5 hrs. with 5.1 g. 90% HCO2H and 3.6 g. 37% HCHO, 2 g. concentrated HCl added, the mixture concentrated to dryness, the residue dissolved in H2O and treated with NH3, the base isolated, ground with ligroine, filtered off, and converted into 1-phenyl-2-dimethylamino-3-indanol-HCl, m. 194-6°. I (1.2 g.) hydrogenated 1 hr. in 5 cc. MeOH-NaOH and 5 cc. MeOH with Raney Ni until 0.93 molar equivalent of H was absorbed yielded 80% II, m. 162-4°. A similar reduction of 1.2 g. I with the same reagents required 5 min. at 20 atmospheric for an uptake of 0.93 molar equivalent H and gave 88% II. 1-Methyl-2-isonitroso-3-indanone (IV) (1.74 g.) similarly reduced 3.5 hrs. with Raney Ni and the product treated with HCl gave 2.05 g. 1-methyl-2-amino-3-indanol-HCl (V), m. 234-6°. IV (8.8 g.) reduced with Raney Ni under alkaline conditions and the product acidified gave V. II (11.3 g.) refluxed 2 hrs. with 75 cc. alc., 5.3 g. BzH, and 2 drops piperidine yielded 9.7 g. Schiff's base, m. 142-3°. This base (8.9 g.) in dioxane reduced 2 hrs. with Raney Ni catalyst gave 8.7 g. 1-phenyl-2-benzylamino-3-indanol (VI), m. 155-6°. VI (5.1 g.) refluxed 4 hrs. with 4.2 g. 85% HCO2H and 1.5 g. 38% HCHO gave 5.4 g. 1-phenyl-2-benzylmethylamino-3-indanol-HCl (VII), m. 224-5° (decomposition). VII (4.8 g.) in 70 cc. MeOH hydrogenated 35 min. at 50° with Pd black gave 4 g. 1-phenyl-2-methylamino-3-indanol-HCl, m. 150-2°; the free base, m. 165-7°. II (2.25 g.) refluxed 3 hrs. with 2.3 g. Br(CH2)5Br, then refluxed 15 hrs. with 1.7 g. NaHCO3 and 10 cc. PhMe, and the product treated with Et2O-HCl gave 1-phenyl-2-piperidino-3-indanol-HCl, m. 247-8°.
1-Phenyl-1-methyl-3-indanone (15 g.) treated with HCl and BuNO2 0.5 hr. and left a further 0.5 hr. gave the isonitroso ketone (VIII), crystals, m. 196-8°. VIII (12 g.) similarly reduced in MeOH-HCl with Pd-C and PdCl2 gave 1-phenyl-1-methyl-2-amino-3-indanol-HCl, m. 222-4°.
1-Methyl-2-amino-3-indanol (4 g.) heated 4 hrs. with HCO2H and HCHO as above gave 1-methyl-2-dimethyl-amino-3-indanol-HCl, m. 172-3°.

IT **101089-55-8**, 1-Indanol, 2-amino-3-phenyl-

L60 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(and salts)
RN 101089-55-8 CAPLUS
CN 1H-Inden-1-ol, 2-amino 2,3-dihydro-3-phenyl- (9CI) (CA INDEX NAME)

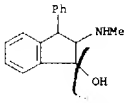


IT **101292-79-9**, 1-Indanol, 2-methylamino-3-phenyl-, hydrochloride
101292-80-2, 1-Indanol, 2-methylamino-3-phenyl-
101583-86-2, 1-Indanol, 2-dimethylamino-3-phenyl-, hydrochloride
102548-94-7, 1-Indanol, 2-benzylideneamino-3-phenyl-
102560-66-7, 1-Indanol, 2-(benzylmethylamino)-3-phenyl-, hydrochloride **110332-78-0**, 1-Indanol, 2-benzylamino-3-phenyl-
(preparation of)
RN 101292-79-9 CAPLUS
CN 1-Indanol, 2-methylamino-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



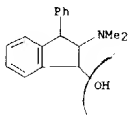
● HCl

RN 101292-80-2 CAPLUS
CN 1-Indanol, 2-methylamino-3-phenyl- (6CI) (CA INDEX NAME)



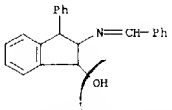
RN 101583-86-2 CAPLUS
CN 1-Indanol, 2-dimethylamino-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)

L60 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

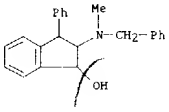


● HCl

RN 102548-94-7 CAPLUS
CN 1-Indanol, 2-benzylideneamino-3-phenyl- (6CI) (CA INDEX NAME)

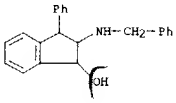


RN 102560-66-7 CAPLUS
CN 1-Indanol, 2-(benzylmethylamino)-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

RN 110332-78-0 CAPLUS
CN 1-Indanol, 2-benzylamino-3-phenyl- (6CI) (CA INDEX NAME)



L60 ANSWER 52 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1955:69016 CAPLUS
DOCUMENT NUMBER: 49:69016
ORIGINAL REFERENCE NO.: 49:13195g-i,13196a-e
TITLE: Some amines derived from 3-phenyl-1-indanone
AUTHOR(S): Zaugg, Harold E.; Horrom, Bruce W.
CORPORATE SOURCE: Abbott Labs., North Chicago
SOURCE: Journal of the American Chemical Society (1954), 76, 4488-9
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

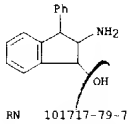
AB A series of amines derived from the Mannich reaction of 3-phenyl-1-indanone (I) has been prepared I (31.2 g.), 50 g. Me2NH.HCl, and 0.36 cc. concentrated HCl in 60 cc. refluxing absolute EtOH treated during 105 min. with 13 g. paraformaldehyde in portions, the mixture refluxed 40 min. with stirring, cooled, poured in ice containing 3 cc. concentrated HCl, and washed with Et2O, the aqueous solution made alkaline with 2N NaOH while adding ice, the precipitated oil dissolved in Et2O, the solution washed with H2O, dried with MgSO4, and filtered, the filtrate treated with excess HCl in Et2O, and the precipitate (22.7 g.), m. 125-35°, recrystd. twice from MeOH-Et2O gave 15.3 g. 2-dimethylaminomethyl-3-phenyl-1-indanone HCl salt (Ia), white crystalline powder, m. 138-40°; at the m.p. temperature Ia appeared to split off Me2NH.HCl to form a cloudy melt which does not become entirely clear up to 167-9°. In the same manner were prepared: the 2-Et2NCH2 analog of Ia, m. 120-1°, 13%; 2-piperidinomethyl analog, m. 155-6°, 12%; 2-morpholinomethyl analog m. 150-1°, 30%. II (15 g.) in 75 cc. MeOH and 225 cc. H2O treated during 40 min. with cooling with 300 g. 5% Na-Hg in portions while adding 75 cc. 50% aqueous AcOH was added dropwise to keep the pH between 4 and 6, the mixture was then treated with 40 cc. 50% AcOH, and cooled in ice with stirring for 1.25 hrs., the cloudy mixture decanted from the Hg and extracted with Et2O, the aqueous layer made alkaline with 20% aqueous NaOH, the precipitate dissolved in Et2O, washed neutral with H2O, dried with MgSO4, filtered, and treated with excess dry HCl in Et2O, and the crude precipitate (11.2 g.), m. 195-205°, recrystd. twice from absolute iso-PrOH gave 4.2 g. 2-dimethylaminomethyl-3-phenyl-1-indanol HCl salt (III), m. 238.5-40°. III (1 g.) in 2 cc. concentrated HCl and 8 cc. glacial AcOH refluxed 15 min., the mixture evaporated to dryness in vacuo the residue dissolved in H2O, the solution washed with Et2O, made alkaline with excess concentrated NH4OH, and extracted with Et2O, the extract washed neutral with H2O, dried with MgSO4, and treated with a slight excess of (CO2H)2 in Et2O, and the precipitate (1 g.), m. 163-70°, recrystd. twice from dry EtOH-Et2O gave 2-dimethylaminomethyl-3-phenylindene (IV) H oxalate, m. 183-5°; HCl salt of IV, m. 169-70°. 2-Dimethylamino-1-indanone treated with PhMgBr by the method of Hoffmann and Schellenberg (C.A. 40, 1486.5) gave IV, b0.5 136-7°, m. 65-7° which was converted to the bioxalate, m. 184-6°. 2-Isonitroso-3-phenyl-1-indanone (5.9 g.) in 250 cc. absolute EtOH containing 3 g. HCl hydrogenated 4 hrs. at room temperature and 35 lb. pressure over 0.6 g. 20% Pd-C, the mixture filtered, and the filtrate concentrated to about 20-5 cc. and diluted with 5 vols. dry Et2O precipitated 5.5 g.

L60 ANSWER 52 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
2-amino-3-phenyl-1-indanone (V) HCl salt. V.HCl converted to the free V, treated with dry HCl, and the resulting V.HCl triturated with dry Me2CO to remove a purple impurity recrystd. twice from iso-PrOH-Et2O gave pure V.HCl, white microcryst. powder, m. with decompn. over a range above 250°. 3-Phenyl-1-indanone (35 g.) in 450 cc. dry Et2O treated dropwise with stirring with 26.7 g. Br in 225 cc. CHCl3 at 18-20°, the mixt. washed neutral with H2O, dried with MgSO4, and evapd., and the crude residue (49.5 g.) recrystd. twice from hexane yielded 39.5 g. pure 2-bromo-3-phenyl-1-indanone (VI), m. 87-8°. VI (12 g.) and 8.5 g. (iso-PrO)3Al in 60 cc. abs. iso-PrOH refluxed 2.5 hrs. while distg. out the Me2CO formed at a rate of 4-6 drops/min., the mixt. treated with 18 cc. concd. HCl and 88 cc. H2O in the cold, the org. layer dissolved in Et2O, the soln. washed with H2O, dried with MgSO4, and evapd., the residual dark oil dissolved in EtOAc, the soln. dild. with pentane and cooled, and the small amt. crude deposit crystd. from heptane gave 1.6 g. 2-bromo-3-phenyl-1-indanol, m. 129.5-30°, and a liquid residue of by-products.

IT **101089-55-8**, 1-Indanol, 2-amino-3-phenyl- **101717-79-7**, 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride
(preparation of)

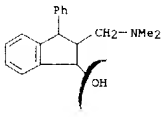
RN 101089-55-8 CAPLUS

CN 1H-Inden-1-ol, 2-amino-2,3-dihydro-3-phenyl- (9CI) (CA INDEX NAME)



RN 101717-79-7 CAPLUS

CN 1-Indanol, 2-(dimethylaminomethyl)-3-phenyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

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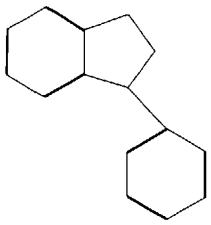
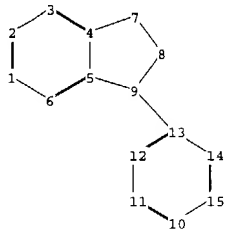


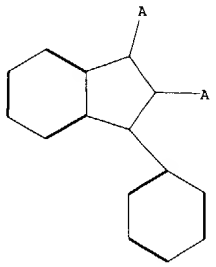


L2

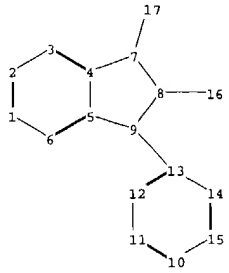
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
chain bonds :
9-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-7 5-9 7-8 8-9
exact bonds :
9-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom

C:\Program Files\Stnexp\Queries\09976929.str



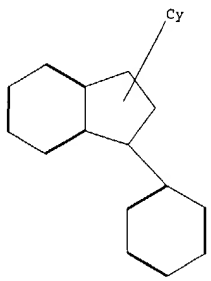
L37

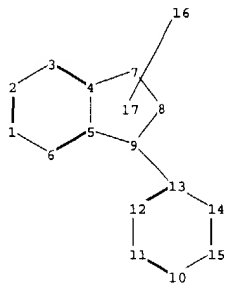


ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
ring/chain nodes :
16 17
chain bonds :
7-17 8-16 9-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-7 5-9 7-8 7-17 8-9 8-16
exact bonds :
9-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS

C:\Program Files\Stnexp\Queries\09976929.str



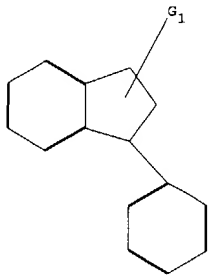


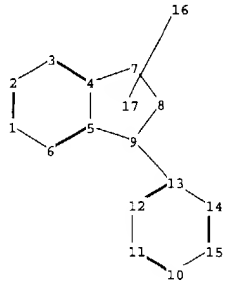
not L45

chain nodes :
16
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
chain bonds :
9-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-7 5-9 7-8 8-9
exact bonds :
9-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS

C:\Program Files\Stnexp\Queries\09976929.str





not L 56

chain nodes :
16
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
chain bonds :
9-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-7 5-9 7-8 8-9
exact bonds :
9-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

G1:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS